

WL-TR-96-1017

**EYE-SAFE 2-MICRON LASER  
COMMUNICATIONS SYSTEM**



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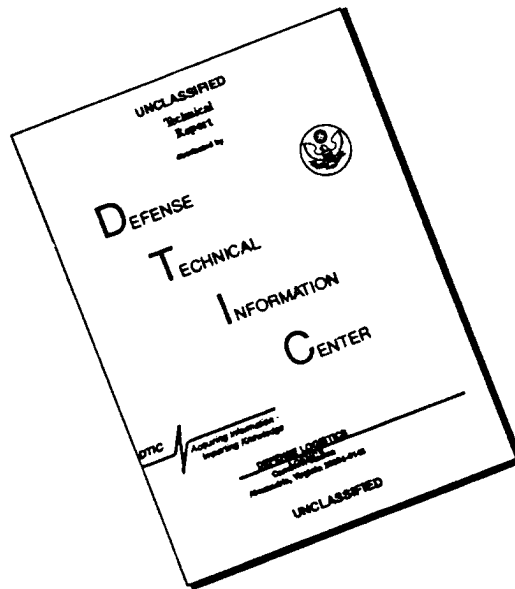
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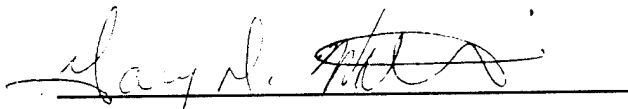
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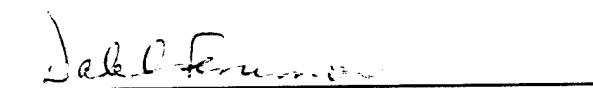
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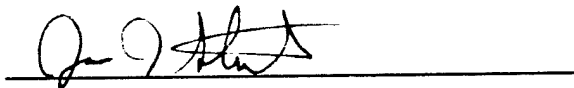
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## 1 Introduction

Free space laser communications is potentially one of the most versatile forms of communications available at the present time. Because of the narrow divergence of the laser beam, the communications channel has an inherent low probability of intercept (LPI) by those who are not the intended recipients. In addition, the short wavelength of the carrier produces a bandwidth which vastly exceeds our present capability to exhaust. Also, the channel is free from sources of electromagnetic interference which plague the radio frequency (RF) spectrum. Although guided laser communications using fiber-optic cables has been around for years and the feasibility of using free space laser communications for air-to-air applications was proven in the mid 1980s, operational organizations in the military were reluctant to accept laser communications has a source of LPI communications which can be used during RF comm-out scenarios. Much of this reluctance is based upon the fact that most laser communications equipment developed, up to this point, has not been eye-safe. This is a high priority requirement for those that need to maintain and use the equipment.

One other extremely important item to consider when using free space laser communications in an atmospheric environment is the atmosphere. Whether communication is from air-to-air or air-to-ground, the atmosphere plays a major role in corrupting it. Moisture and aerosols cause absorption and scattering losses while temperature and pressure changes produce refractive index variations in the air by causing random variations in density. The net effect is a warping of the isophase surface of a decrease of the transmittance of the atmosphere and a corresponding decrease in irradiance at the receiver.

As a consequence of a requirement for laser communications to be eye-safe, we launched an effort to study the eye-safe region of the infrared spectrum to determine its susceptibility to atmospheric turbulence and absorption and to develop an eye-safe-laser communications system. The wavelength being explored is the 2-micron region which according to MODTRAN models is a window which can be exploited for long distance laser communications requirements. A 2 micron, 1 watt laser diode was purchased and a communications system built and tested over our 8 km laser communications test range to gather propagation statistics.

## 2 Background

The feasibility of airborne laser data links was demonstrated in the mid-80s by the Wright Laboratory HAVE LACE (Laser Airborne Communications Experiment) Program. This program developed and tested two laser communications terminals that operated at 19.2 kilobits per second (Kbps). The terminals were tested using two KC-135 aircraft that nominally flew at 20,000 to 25,000 ft altitudes with separation distances out to 100 miles. An operator initiated acquisition was performed once the gimbaled optics were steered to an acceptable acquisition window. Once signal acquisition was accomplished, tracking proved to be extremely robust and communications performance was



consistently measured at  $10^{-6}$  bit error rate or better. The most significant result of the HAVE LACE Program was that the difficulty of achieving initial acquisition between the two moving platforms was quantified. This remains today the most challenging problem with regard to narrow beam communications systems.

Actual propagation of the laser beam through the high altitude atmosphere during the flight tests also allowed for a greater appreciation of the stratospheric phenomenology associated with laser beam acquisition. As a result, the following conclusions were reached: High altitude bulk atmospheric scintillations are easily mitigated by providing sufficient signal margin. Localized aircraft boundary layer scintillations are not appropriately modeled, but can also be easily mitigated with signal margin. In general, link outages occurred only when the aircraft had clouds between them. (Note: the occurrence of clouds becomes less with increasing altitude.)

In an effort to decrease the expense of airborne testing and increase the probability of mission success, the Wright Laboratory Laser Communications Laboratory (LCL), figure 2-1, was founded in 1981 to establish a testbed for Air Force Free Space Laser Communications developmental systems such as Have Lace. The nerve center of the LCL is the control/receiver facility located on the twelfth floor of the Wright Patterson Air Force Base (WPAFB), Area B, Building 620 tower 3 miles East of Dayton Ohio. The LCL Control/Receiver Facility (LCLCRF) contains 400 square feet of enclosed working space with 240 square feet of additional working space on each of the attached balconies. The balconies are located on the east and west sides of the LCLCRF and are separated from it by 240 square feet of glass in the windows and doors making the area surrounding Building 620 visible on the east and west sides of the LCLCRF. From the LCLCRF and its balconies, connectivity is achievable to just about everywhere in the 200 square kilometer area surrounding Building 620, which includes the Air Force Museum runway, WPAFB Area C runway, and WPAFB Trebein Test Site.

The Trebein Test Facility (TTF), an area of land with buildings which is part of the LCL, is located 8 kilometers to the east of the LCLCRF. Trebein contains 95 acres of fenced-in land with five buildings. One of the buildings, No.356, is elevated 10 feet above ground level and functions as the LCL Transmit Facility (LCLTF). The link between the LCLCRF and the LCLTF is line-of-sight and the atmospheric turbulence in the channel is monitored through real-time measurements of the diffraction limited aperture of the atmosphere,  $r_0$  [10]. Meteorological measurements of temperature, humidity, and atmospheric pressure are also monitored at the LCL to provide additional data for the analysis of the received communications signal.

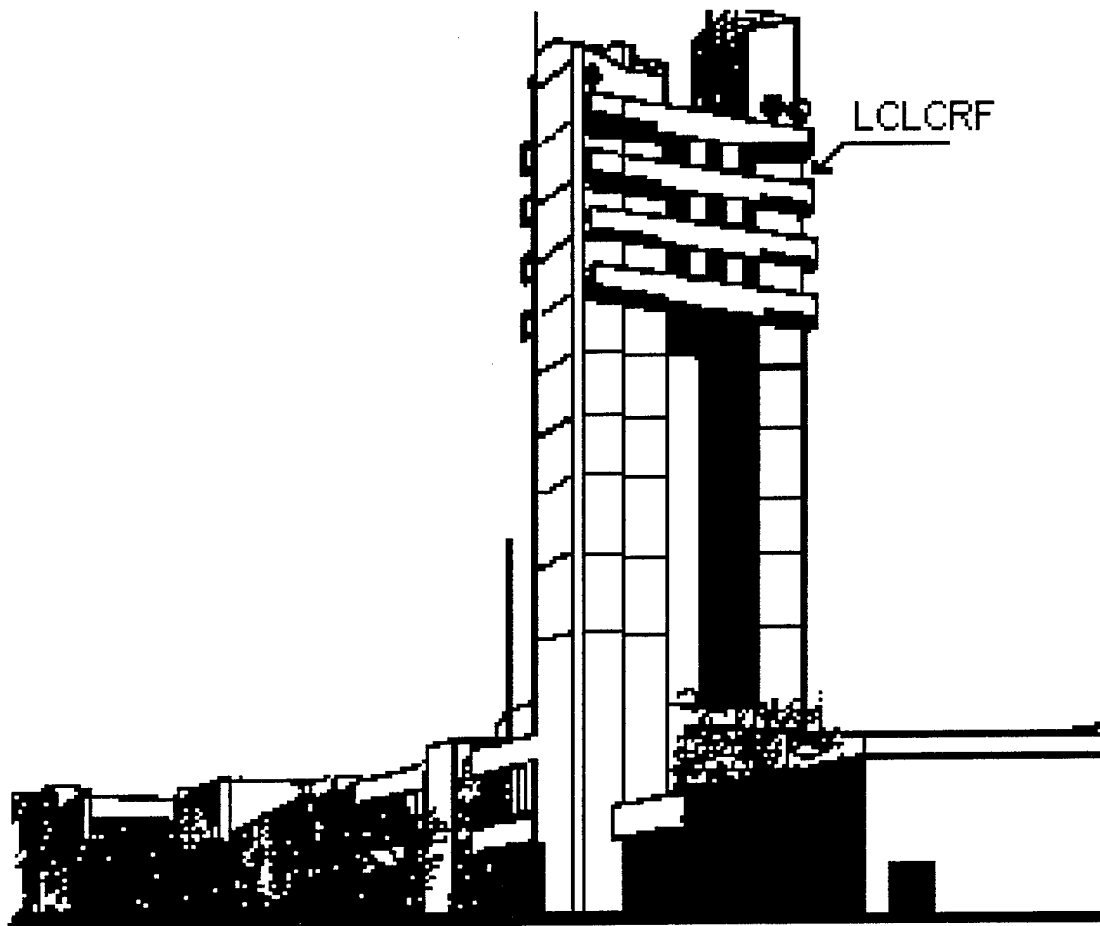


Figure 2-1. WL Laser Communications Control/Receiver Facility (LCLCRF)

The LCL has made a profound impact on all laser communications projects which have been accomplished by the Wright Laboratory Avionics Directorate. The HAVE LACE Program utilized the LCL to perform preflight testing of the laser communication equipment to be used in the air-to-air laser communications feasibility demonstration. Before take-off, the laser communications equipment on the two C-135 aircraft on the runway in Area C were checked by establishing communication between the aircraft laser communication equipment and a like system stationed on the east balcony of the LCL. Once communications were established, and last minute tweaking was accomplished, the two planes took off to accomplish their testing to evaluate/prove the feasibility of air-to-air laser communications .

Another program which benefited from the LCL was the Scattered-light Test Airborne Receiver (STAR) program [6]. The test was a cooperative effort between the Naval Ocean Systems Center (NOSC) and Wright Laboratory to demonstrate scattered-light communications in an airborne platform, scientifically evaluate the receiver, and to characterize the channel. Upon delivery, the STAR equipment was thoroughly tested in the LCL before integration into the aircraft where it was flight tested to examine the effects of beam spreading and pulse stretching when communicating through clouds. Upon

conclusion of the flight test, the data was taken to the LCL for processing where it was found that previous methods of obtaining cloud probe data grossly underestimated the scattering losses and that when using radiometric derived cloud optical thickness, the Stotts equation over-predicted measured pulse widths by a factor of two to ten.

Testing of the Hand Held Laser Communicators (HHLC) [5] which we had developed for helicopter refueling missions was done extensively using all the LCL resources. Initially we tested them in the LCLCRF to determine their wavelength, output power, pulse repetition frequency, and modulation characteristics. We then took them out to the Air Force Museum for ground testing. We stationed one person in the LCLCRF and another person on the runway for distance checking and pointing ability. We were able to communicate the full 2 miles without tripod support so we decided to attempt communications from the LCLCRF at Area B to the LCLTF at the TTF. We were able to communicate over the 5 mile range with exceptional quality. However, acquisition and tracking requirements were a little more stringent and we had to stabilize the HHLCs on tripods. After the test in the LCL, the units were field tested on two helicopters. These tests were so successful that funding was approved to build eight preproduction models. There were some design changes made to make the communicators lighter, smaller, and eye-safe. Once these units were redesigned, fabricated and delivered, testing resumed in the LCL, checking the divergence and receive/transmitter alignment.

## 2.1 Objective of the LCL In-House Research Effort

The original objective of this in-house project was to test the performance characteristics of a commercially purchased 2 micron, diodepumped, solid-state laser for communications and radar applications. The plan involved the purchase a commercial off-the-shelf laser to investigate the effects of atmospheric conditions on the quality of the received laser communications signal. A second task involved the investigation of the technical problems associated with using a laser radar to identify targets based upon the Doppler signal due to vibrations of the target surface.

Due to funding reductions and difficulties in obtaining a diode pumped solid-state 2 micron laser, the program scope was reduced to testing the performance of a 1 watt 2 micron laser diode for laser communications applications. The laser radar applications were dropped because the required laser 52 microsecond coherence length could not be achieved using a laser diode.

## 2.2 Approach

Since the money was not available for the 1 watt diode pumped solid state 2.01 micron laser we wanted, and a 1 watt 2.01 micron laser diode was not available off-the-shelf, we decided to purchase three prototype laser diodes from SDL. Early in the development of the prototypes, it became evident that they were not going to achieve the desired wavelength, so a great deal of atmospheric modeling was accomplished to provide SDL

with an alternative wavelength which would allow us to have an eye-safe laser transmitter design and communicate without excess atmospheric losses. Upon receipt of the laser diodes the laser transmitter and receiver were built and an 8 kilometer laser communications link established between the LCLCRF on the twelfth floor of WPAFB Area B Building 620, and the LCLTF at the WPAFB Trebein Test Site, as shown in Figure 2-2.

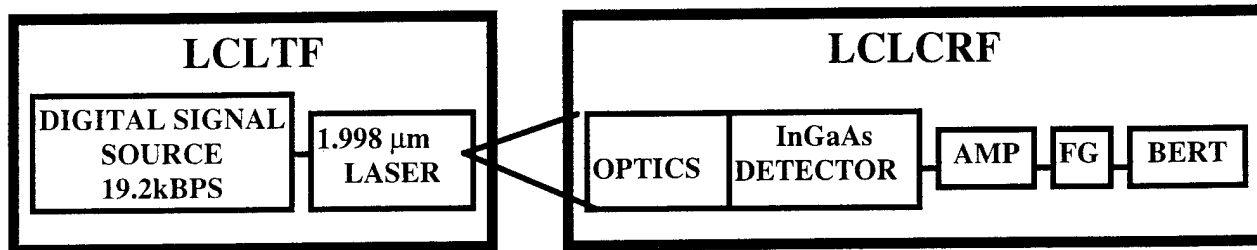


Figure 2-2. Free Space Laser Communications Link

### 3 Equipment Design and Development

#### 3.1 Eye-Safety:

There is a common misconception that wavelengths beyond 1.5 microns are eye-safe. The fact that these long wavelengths are not focused on the retina make them somewhat retina safe, in that energy is not concentrated on one spot such as the fovea, but does not make them totally eye-safe. The reason for this is that different wavelengths are treated differently by various parts of the eye. Some are absorbed by the water in the eye and cause heating and painful swelling and drying, and some wavelengths are absorbed by specific parts of the eye such as the lens or cornea and could cause permanent loss of vision. Given enough energy in the laser beam any laser wavelength could cause eye damage. The converse of this is that by restricting the amount of energy irradiated on the eye to a level below the Maximum Permissible Exposure (MPE) level as provided in American National Standards Institute (ANSI) Standard Z136.1-1993, any wavelength laser can be made eye-safe. The problem lies in the fact that with visible and near-infrared lasers, the MPE is very small for Nominal Ocular Hazard Distances (NOHD) which are close enough to the equipment to accomplish operational and maintenance procedures. Since there is a certain minimum amount of energy which is required to be radiated to provide an acceptable signal margin at the receiver, a communications transmitter using a visible or infrared wavelength will not be eye-safe unless the output radiated energy is either decreased, the divergence is increased or the transmitter exit aperture is increased. The first two of these approaches reduce the amount of energy at the receiver causing a decrease in the acceptable communication range while the third requires an investment of more space at the transmitter to accommodate a larger aperture.

In an effort to determine the optimum laser specifications required to build the eye-safe laser communications transmitter, the Armstrong Laboratory LHAZ Version 2.0 Integrated Laser Hazard Assessment Program was used to generate MPE and NOHD data for a continuous wave (CW) 1 watt laser with a 1 centimeter aperture and divergence of 1 milliradian for 0.25, 1, 10 and 30000 second exposures of some of the more popular laser wavelengths. Table 3.1 is a result of that exercise with Figures 3-1, 3-3, 3-5 and 3-7 providing a graphical depiction of the MPE and Figures 3-2, 3-4, 3-6, and 3-8 illustrating the corresponding NOHD. Table 3-1 and Figure 3-2, even a 1 watt Carbon Dioxide laser with a wavelength of 10.6 microns and a divergence of 1 milliradian requires an NOHD of over half a meter when the beam is observed for only 0.25 seconds. For a person performing maintenance on such a transmitter that requires 8 hours of exposure, an NOHD of 25.7 meters is required which means the operator had better be wearing eye and skin protection.

Table 3-1. MPE and NOHD for a 1 cm aperture. Data generated using the Armstrong Laboratory LHAZ Version 2.0 Integrated Laser Hazard Assessment Program for 0.25, 1, 10, and 30000 second laser exposures with a 1 cm aperture.

| Wavelength<br>(microns) | MPE<br>(J/cm <sup>2</sup> )<br>.25 Sec | NOHD<br>(meters)<br>.25 Sec | MPE<br>(J/cm <sup>2</sup> )<br>1 Sec | NOHD<br>(meters)<br>1 Sec | MPE<br>(J/cm <sup>2</sup> )<br>10 Sec | NOHD<br>(meters)<br>10 Sec | MPE<br>(J/cm <sup>2</sup> )<br>30000 Sec | NOHD<br>(meters)<br>30000 Sec |
|-------------------------|--|-----------------------------|--------------------------------------|---------------------------|---------------------------------------|----------------------------|--|-------------------------------|
| 0.275                   | 0.003000                               | 93.000                      | 0.00300                              | 196.000                   | 0.0030                                | 641.000                    | 0.003                                    | 35700.000                     |
| 0.325                   | 0.396000                               | 79.000                      | 0.56000                              | 168.000                   | 0.9960                                | 554.000                    | 1.000                                    | 30900.000                     |
| 0.351                   | 0.396000                               | 7.840                       | 0.56000                              | 25.700                    | 0.9960                                | 1.030                      | 1.000                                    | 6170.000                      |
| 0.442                   | 0.000636                               | 0.000                       | 0.00180                              | 5.080                     | 0.0100                                | 25.800                     | 0.030                                    | 1940.000                      |
| 0.514                   | 0.000636                               | 214.000                     | 0.00180                              | 256.000                   | 0.0100                                | 347.000                    | 0.030                                    | 11300.000                     |
| 0.632                   | 0.000636                               | 214.000                     | 0.00180                              | 256.000                   | 0.0101                                | 347.000                    | 0.509                                    | 11300.000                     |
| 0.647                   | 0.000636                               | 214.000                     | 0.00180                              | 256.000                   | 0.0101                                | 345.000                    | 0.855                                    | 2730.000                      |
| 0.670                   | 0.000636                               | 214.000                     | 0.00180                              | 256.000                   | 0.0101                                | 345.000                    | 1.890                                    | 1410.000                      |
| 0.905                   | 0.001640                               | 129.000                     | 0.00463                              | 156.000                   | 0.0260                                | 211.000                    | 24.700                                   | 383.000                       |
| 1.000                   | 0.002530                               | 102.000                     | 0.00717                              | 123.000                   | 0.0040                                | 168.000                    | 38.200                                   | 306.000                       |
| 1.064                   | 0.003180                               | 90.000                      | 0.00900                              | 109.000                   | 0.0506                                | 149.000                    | 48.000                                   | 272.000                       |
| 1.310                   | 0.003180                               | 90.000                      | 0.00900                              | 109.000                   | 0.0506                                | 149.000                    | 48.000                                   | 272.000                       |
| 1.350                   | 0.003180                               | 90.000                      | 0.00900                              | 109.000                   | 0.0506                                | 149.000                    | 48.000                                   | 272.000                       |
| 1.390                   | 0.003180                               | 0.000                       | 0.00900                              | 5.080                     | 0.0506                                | 25.800                     | 0.003                                    | 25.700                        |
| 1.400                   | 0.396000                               | 0.000                       | 0.56000                              | 5.080                     | 0.9960                                | 25.800                     | 0.003                                    | 25.700                        |
| 1.450                   | 0.396000                               | 0.000                       | 0.56000                              | 5.080                     | 0.9960                                | 25.800                     | 0.003                                    | 25.700                        |
| 1.500                   | 0.396000                               | 0.000                       | 0.56000                              | 5.080                     | 0.9960                                | 25.800                     | 0.003                                    | 25.700                        |
| 1.550                   | 0.396000                               | 0.000                       | 0.56000                              | 5.080                     | 0.9960                                | 25.800                     | 0.003                                    | 25.700                        |
| 1.600                   | 0.396000                               | 0.000                       | 0.56000                              | 5.080                     | 0.9960                                | 25.800                     | 0.003                                    | 25.700                        |
| 1.700                   | 0.396000                               | 0.000                       | 0.56000                              | 5.080                     | 0.9960                                | 25.800                     | 0.003                                    | 25.700                        |
| 1.800                   | 0.396000                               | 0.000                       | 0.56000                              | 5.080                     | 0.9960                                | 25.800                     | 0.003                                    | 25.700                        |
| 1.900                   | 0.396000                               | 0.000                       | 0.56000                              | 5.080                     | 0.9960                                | 25.800                     | 0.003                                    | 25.700                        |
| 2.000                   | 0.396000                               | 0.000                       | 0.56000                              | 5.080                     | 0.9960                                | 25.800                     | 0.003                                    | 25.700                        |
| 2.100                   | 0.396000                               | 0.000                       | 0.56000                              | 5.080                     | 0.9960                                | 25.800                     | 0.003                                    | 25.700                        |
| 2.600                   | 0.396000                               | 0.000                       | 0.56000                              | 5.080                     | 0.9960                                | 25.800                     | 0.003                                    | 25.700                        |
| 3.000                   | 0.396000                               | 0.000                       | 0.56000                              | 5.080                     | 0.9960                                | 25.800                     | 0.003                                    | 25.700                        |
| 4.000                   | 0.396000                               | 0.000                       | 0.56000                              | 5.080                     | 0.9960                                | 25.800                     | 0.003                                    | 25.700                        |
| 5.000                   | 0.396000                               | 0.000                       | 0.56000                              | 5.080                     | 0.9960                                | 25.800                     | 0.003                                    | 25.700                        |
| 6.000                   | 0.396000                               | 0.000                       | 0.56000                              | 5.080                     | 0.9960                                | 25.800                     | 0.003                                    | 25.700                        |
| 7.000                   | 0.396000                               | 0.000                       | 0.56000                              | 5.080                     | 0.9960                                | 25.800                     | 0.003                                    | 25.700                        |
| 8.000                   | 0.396000                               | 0.000                       | 0.56000                              | 5.080                     | 0.9960                                | 25.800                     | 0.003                                    | 25.700                        |
| 9.000                   | 0.396000                               | 0.000                       | 0.56000                              | 5.080                     | 0.9960                                | 25.800                     | 0.003                                    | 25.700                        |
| 10.000                  | 0.396000                               | 0.000                       | 0.56000                              | 5.080                     | 0.9960                                | 25.800                     | 0.003                                    | 25.700                        |
| 10.600                  | 0.396000                               | 0.000                       | 0.56000                              | 5.080                     | 0.9960                                | 25.800                     | 0.003                                    | 25.700                        |

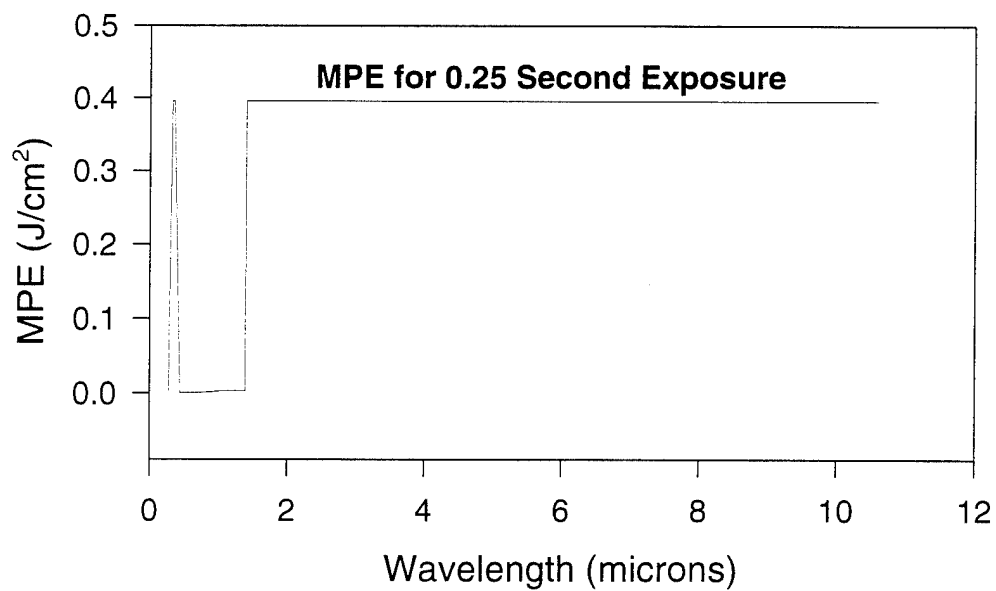


Figure 3-1. MPE for 0.25 Second Direct Ocular Exposure

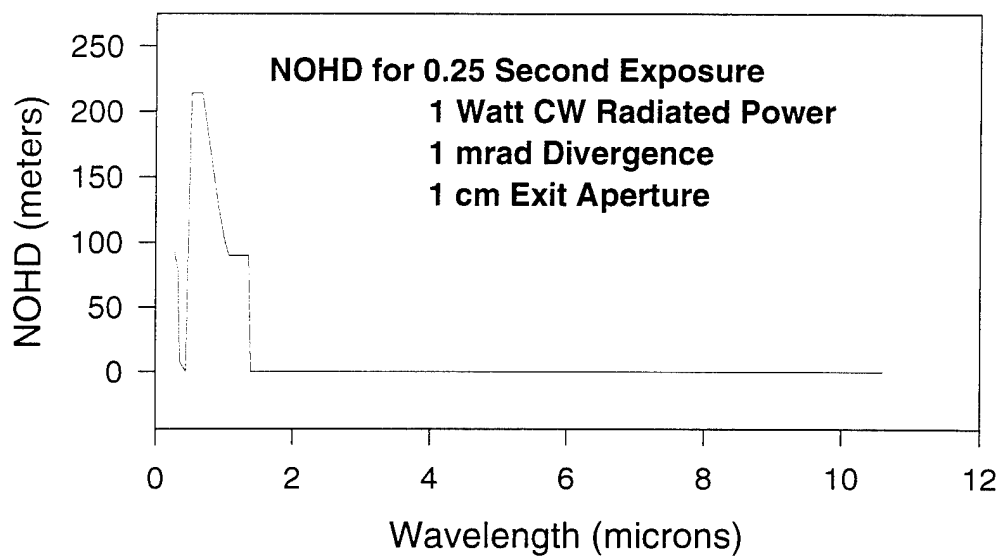


Figure 3-2. NOHD for 0.25 Second Direct Ocular Exposure

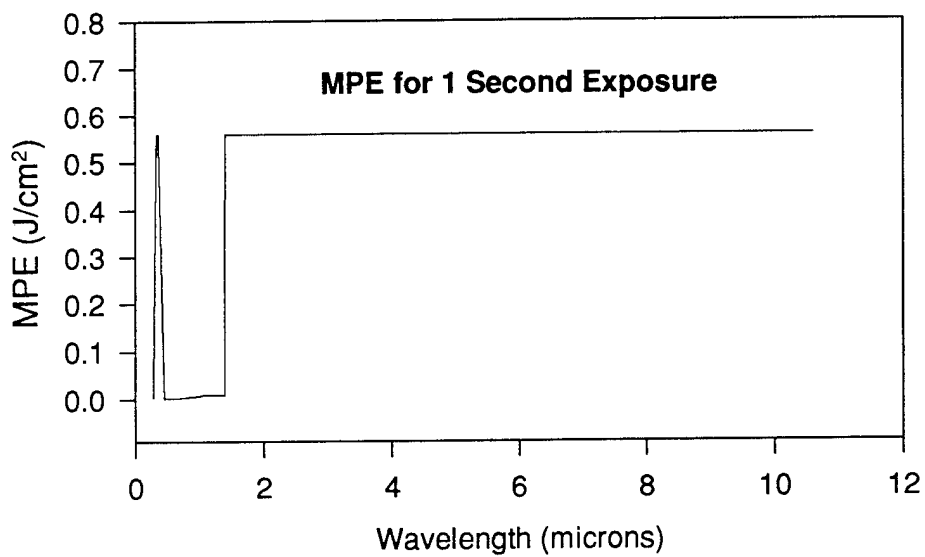


Figure 3-3. MPE for 1 Second Direct Ocular Exposure

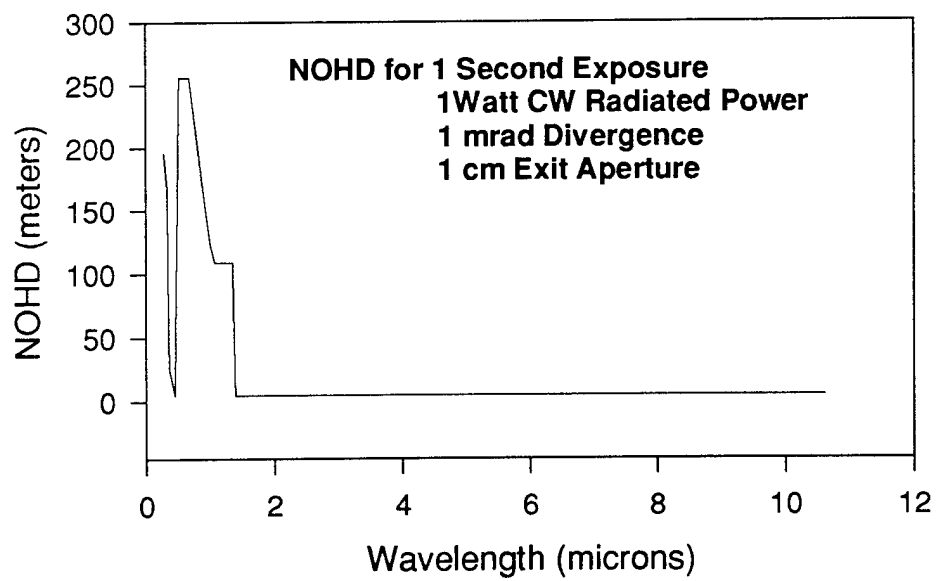


Figure 3-4. NOHD for 1 Second Direct Ocular Exposure



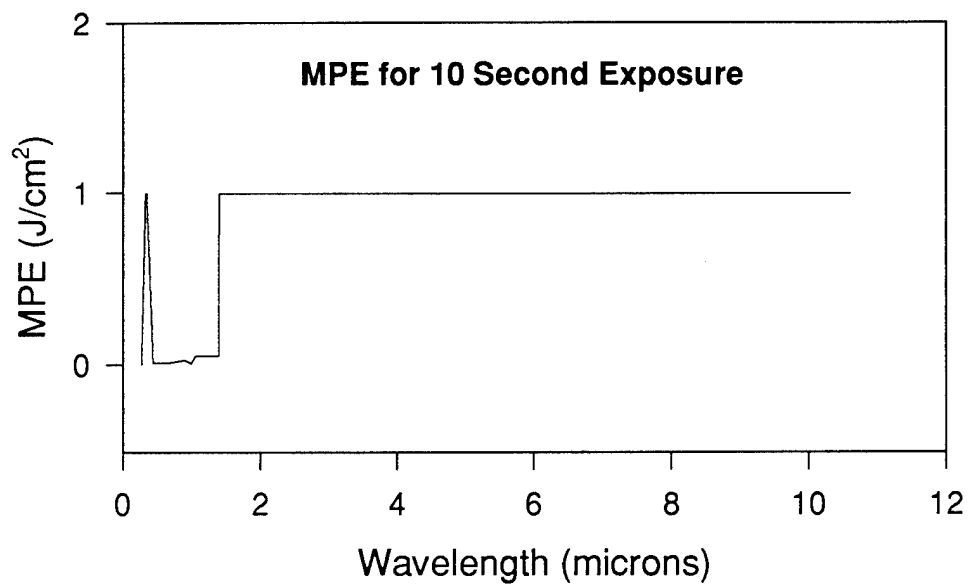


Figure 3-5. MPE for 10 Second Direct Ocular Exposure

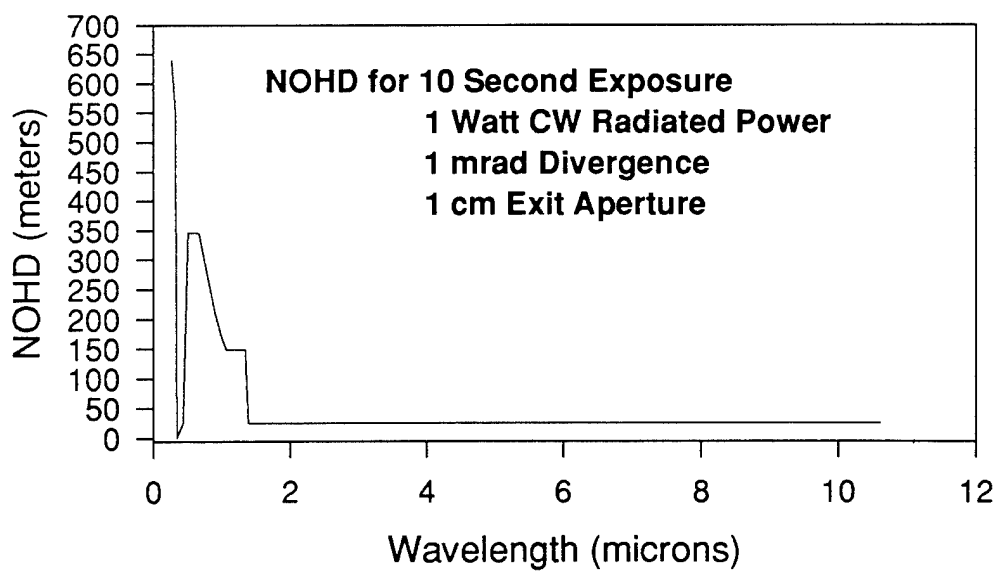


Figure 3-6. NOHD for 10 Second Direct Ocular Exposure

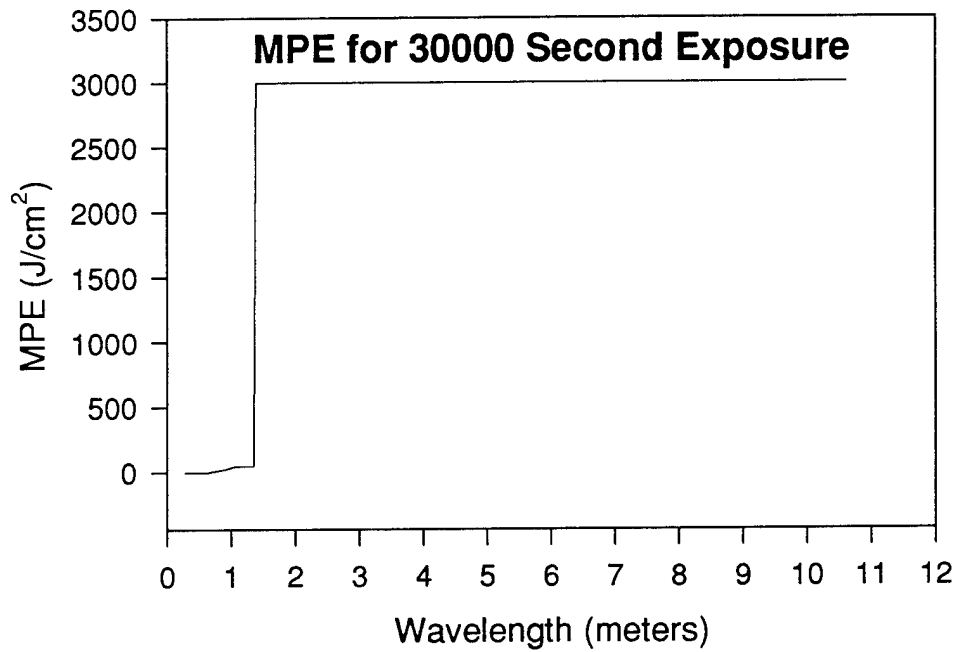


Figure 3-7. MPE for 30000 Second Direct Ocular Exposure

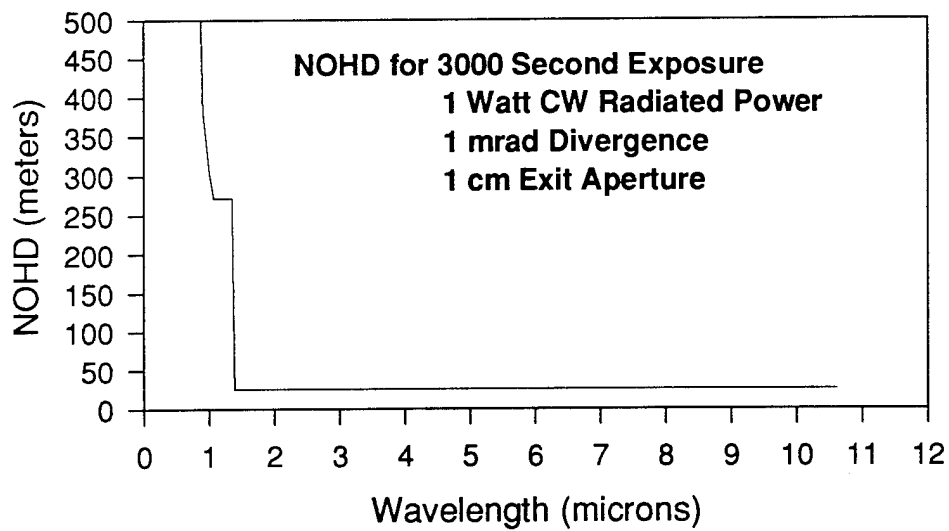


Figure 3-8. NOHD for 30000 Second Direct Ocular Exposure

Since it was quite obvious from the NOHD that a 1 watt laser transmitter with divergence of 1 mrad and an exit aperture of 1 cm was not eye-safe, the aperture setting of LHAZ 2.0 was increased in increments of 1 cm until the output of a 2 micron wavelength, 1 watt CW laser with a divergence of 1 mrad was eye-safe, i.e. the NOHD was 0 for a 30000 second exposure. This occurred at 4 cm. The aperture size was then tweaked a little more until the smallest aperture which gave an NOHD of 0 was obtained. The result was an aperture of 3.58 cm. Table 3-2 and Figures 3-9 through 3-12 provide the 0.25, 1, 10, and 3000 second NOHD for the 3.58 cm exit aperture for the wavelengths used in Table 3-1. From Table 3-2 it is obvious that a 1 watt CW laser transmitter with a divergence of 1 mrad and an exit aperture greater than 3.58 cm is eye-safe for any working distance over a period of 8 hours (the normal working man's workday). Table 3-3 is an actual output of LHAZ 2.0.

Table 3-2. MPE and NOHD data for 0.25, 1, 10, and 30000 second exposures of a laser with a 3.58 cm exit aperture

| wave Length<br>(microns) | MPE<br>(J/cm <sup>2</sup> )<br>.25 Sec | NOHD<br>(meters)<br>.25 Sec | MPE<br>(J/cm <sup>2</sup> )<br>1 Sec | NOHD<br>(meters)<br>1 Sec | MPE<br>(J/cm <sup>2</sup> )<br>10 Sec | NOHD<br>(meters)<br>10 Sec | MPE<br>(J/cm <sup>2</sup> )<br>3e4 Sec | NOHD<br>(meters)<br>30000 Sec |
|--------------------------|--|-----------------------------|--------------------------------------|---------------------------|---------------------------------------|----------------------------|--|-------------------------------|
| 0.275                    | 0.003000                               | 67.200                      | 0.00300                              | 170.000                   | 0.0030                                | 616.000                    | 0.003                                  | 35600.000                     |
| 0.325                    | 0.396000                               | 53.400                      | 0.56000                              | 143.000                   | 0.9960                                | 528.000                    | 1.000                                  | 30900.000                     |
| 0.351                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 77.000                     | 1.000                                  | 6140.000                      |
| 0.442                    | 0.000636                               | 0.000                       | 0.00180                              | 0.000                     | 0.0100                                | 0.000                      | 0.030                                  | 1920.000                      |
| 0.514                    | 0.000636                               | 788.000                     | 0.00180                              | 230.000                   | 0.0100                                | 321.000                    | 0.030                                  | 11200.000                     |
| 0.632                    | 0.000636                               | 188.000                     | 0.00180                              | 230.000                   | 0.0101                                | 321.000                    | 0.509                                  | 11200.000                     |
| 0.647                    | 0.000636                               | 188.000                     | 0.00180                              | 230.000                   | 0.0101                                | 319.000                    | 0.855                                  | 2700.000                      |
| 0.670                    | 0.000636                               | 188.000                     | 0.00180                              | 230.000                   | 0.0101                                | 319.000                    | 1.890                                  | 1380.000                      |
| 0.905                    | 0.001640                               | 1.400                       | 0.00463                              | 130.000                   | 0.0260                                | 185.000                    | 24.700                                 | 358.000                       |
| 1.000                    | 0.002530                               | 76.300                      | 0.00717                              | 97.500                    | 0.0040                                | 142.000                    | 38.200                                 | 280.000                       |
| 1.064                    | 0.003180                               | 64.200                      | 0.00900                              | 83.100                    | 0.0506                                | 123.000                    | 48.000                                 | 246.000                       |
| 1.310                    | 0.003180                               | 64.200                      | 0.00900                              | 83.100                    | 0.0506                                | 123.000                    | 48.000                                 | 246.000                       |
| 1.350                    | 0.003180                               | 64.200                      | 0.00900                              | 83.100                    | 0.0506                                | 123.000                    | 48.000                                 | 246.000                       |
| 1.390                    | 0.003180                               | 0.000                       | 0.00900                              | 0.000                     | 0.0506                                | 0.000                      | 0.003                                  | 0.000                         |
| 1.400                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 1.450                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 1.500                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 1.550                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 1.600                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 1.700                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 1.800                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 1.900                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 2.000                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 2.100                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 2.200                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 2.300                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 2.400                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 2.500                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 2.600                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 2.700                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 2.800                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 2.900                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 3.000                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 3.500                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 4.000                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 4.500                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 5.000                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 6.000                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 7.000                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 8.000                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 9.000                    | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 10.000                   | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |
| 10.600                   | 0.396000                               | 0.000                       | 0.56000                              | 0.000                     | 0.9960                                | 0.000                      | 0.003                                  | 0.000                         |

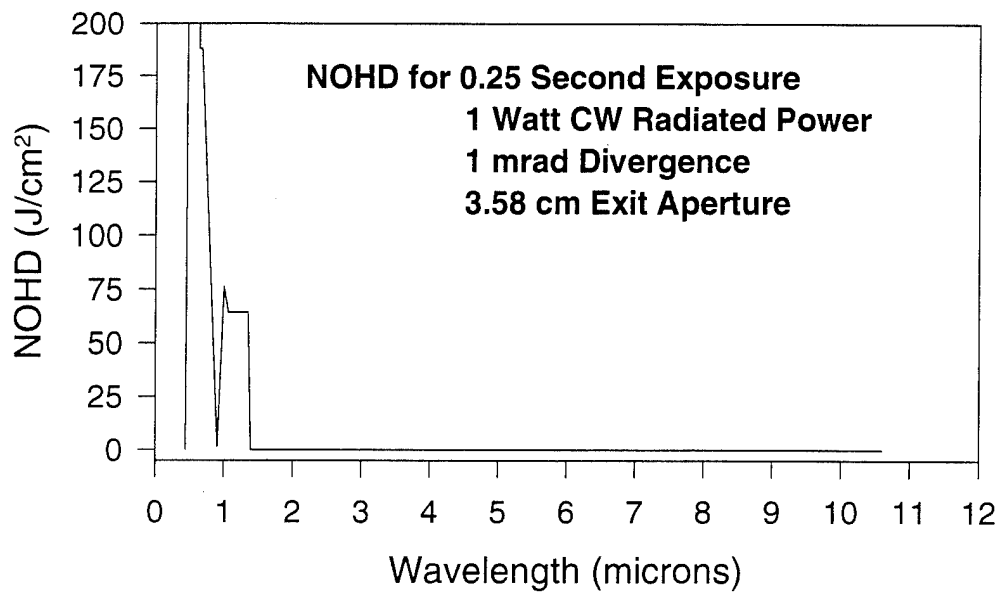


Figure 3-9. NOHD for 0.25 Second Ocular Exposure and 3.58 cm Exit Aperture

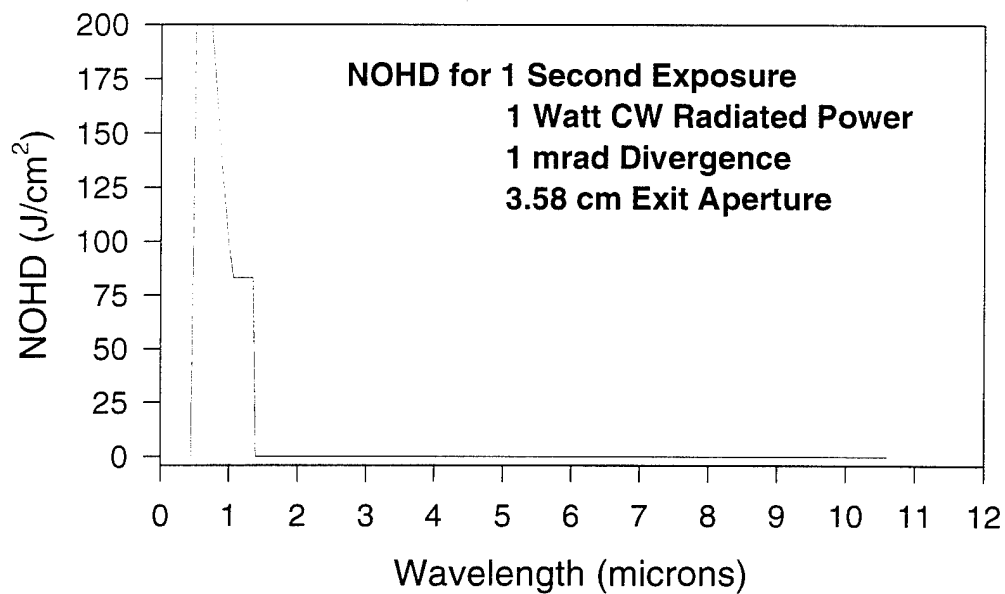


Figure 3-10. NOHD for 1 Second Ocular Exposure and 3.58 cm Exit Aperture

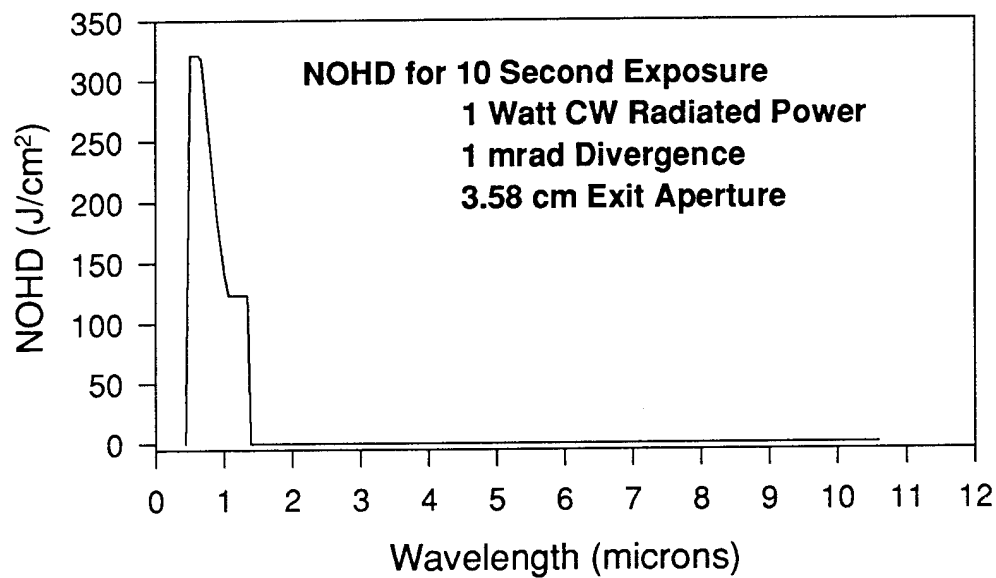


Figure 3-11. NOHD for 10 Second Ocular Exposure and 3.58 cm Exit Aperture

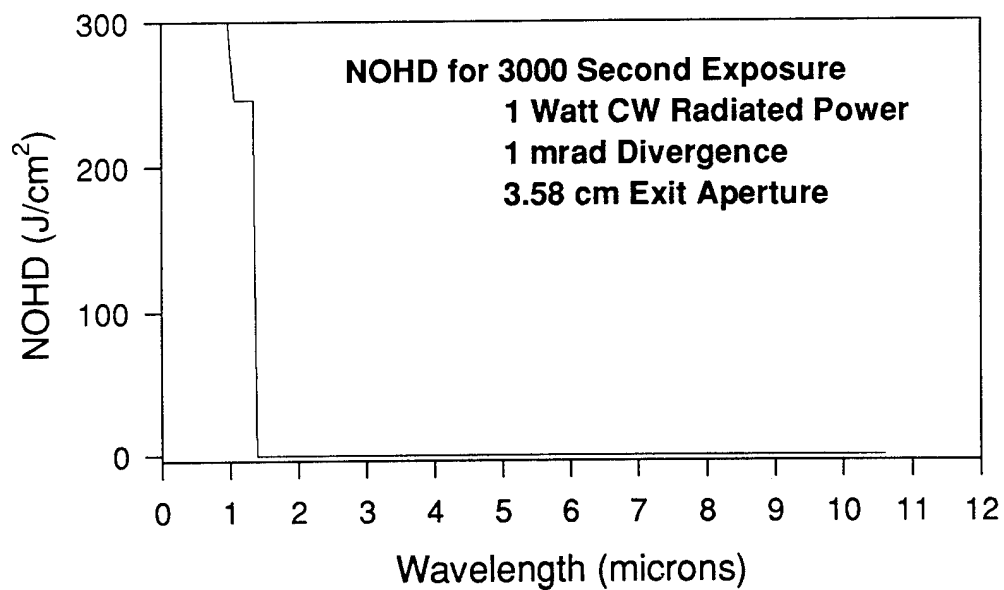


Figure 3-12. NOHD for 3000 Second Ocular Exposure and 3.58 cm Exit Aperture

### Table 3-3. Laser Hazard Evaluation

LHAZ ver 2.0  
SDL 2000 nm laser

A. A hazard evaluation was accomplished for a laser with the following operational characteristics:

Wavelength = 2000.0 nanometers  
CW Laser  
Power = 1.00E+00 Watts  
Beam diameter = 3.58E+00 cm at 1/e point  
Divergence = 1.00E-03 radians at 1/e point

B. This is an ANSI Class 4 Laser and should be operated in accordance with the safety measures outlined in AFOSH STD 161-10 along with such other safety procedures required by the responsible safety officer.

C. The Maximum Permissible Exposure (MPE) limits are listed below. The MPE is defined as the radiant exposure which personnel may receive biological effects.

| Type of MPE            | Exposure Duration (s) | MPE (J/cm <sup>2</sup> )       |
|------------------------|-----------------------|--------------------------------|
| Ocular point source    | 0.25                  | 3.96E-01 J/cm <sup>2</sup>     |
| Ocular point source    | 10.0                  | 9.96E-01 J/cm <sup>2</sup>     |
| Ocular point source    | 30,000                | 3.00E+03 J/cm <sup>2</sup>     |
| Ocular point source    | 1.000                 | 5.60E-01 J/cm <sup>2</sup>     |
| Ocular extended source | 0.25                  | 3.96E-01 J/cm <sup>2</sup> /sr |
| Ocular extended source | 10.0                  | 9.96E-01 J/cm <sup>2</sup> /sr |
| Ocular extended source | 30,000                | 3.00E+03 J/cm <sup>2</sup> /sr |
| Ocular extended source | 1.000                 | 5.60E-01 J/cm <sup>2</sup> /sr |
| Skin                   | 0.25                  | 3.96E-01 J/cm <sup>2</sup>     |
| Skin                   | 10.0                  | 9.96E-01 J/cm <sup>2</sup>     |
| Skin                   | 30,000                | 3.00E+03 J/cm <sup>2</sup>     |
| Skin                   | 1.000                 | 5.60E-01 J/cm <sup>2</sup>     |

D. The Safe Exposure Distance (SED)/(NOHD) for various exposure conditions is listed below. The SED is defined as the distance an operating laser at which the radiant exposure is equal the MPE.

| Type of SED/NOHD   | Exposure Duration (s) | SED/NOHD(m) |
|--------------------|-----------------------|-------------|
| Ocular point       | 0.25                  | 0.00E+00    |
| Ocular point       | 10.0                  | 0.00E+00    |
| Ocular point       | 30,000                | 0.00E+00    |
| Ocular point       | 1.000                 | 0.00E+00    |
| Diffuse reflection | 0.25                  | 0.00E+00    |
| Diffuse reflection | 10.0                  | 0.00E+00    |
| Diffuse reflection | 30,000                | 0.00E+00    |
| Diffuse reflection | 1.000                 | 0.00E+00    |
| Skin               | 0.25                  | 0.00E+00    |
| Skin               | 10.0                  | 0.00E+00    |
| Skin               | 30,000                | 0.00E+00    |
| Skin               | 1.000                 | 0.00E+00    |

Table 3-3 Continued

E. The optical density (OD) is a measure of the opacity to radiation in logarithmic units. The following are OD values required at distances listed.

**OD Required at the Laser Aperture**

| Wavelength(nm) | Exposure Time (s) | Ocular OD | Skin OD |
|----------------|-------------------|-----------|---------|
| 2000.0         | 0.25              | 0.00      | 0.00    |
| 2000.0         | 10.0              | 0.00      | 0.00    |
| 2000.0         | 30,000            | 0.00      | 0.00    |
| 2000.0         | 1.000             | 0.00      | 0.00    |

**OD Required at 1.0 km**

| Wavelength(nm) | Exposure Time (s) | Ocular OD | Skin OD |
|----------------|-------------------|-----------|---------|
| 2000.0         | 0.25              | 0.00      | 0.00    |
| 2000.0         | 10.0              | 0.00      | 0.00    |
| 2000.0         | 30,000            | 0.00      | 0.00    |
| 2000.0         | 1.000             | 0.00      | 0.00    |

**OD Required at 5.0 km**

| Wavelength(nm) | Exposure Time (s) | Ocular OD | Skin OD |
|----------------|-------------------|-----------|---------|
| 2000.0         | 0.25              | 0.00      | 0.00    |
| 2000.0         | 10.0              | 0.00      | 0.00    |
| 2000.0         | 30,000            | 0.00      | 0.00    |
| 2000.0         | 1.000             | 0.00      | 0.00    |

### 3.2 Atmospheric Propagation Analysis

No laser communications system design can be complete without knowledge of the conditions under which the system will be required to communicate. One large consideration is the atmospheric transmittance. In an effort to determine the best wavelength to use for our eye-safe laser communications system, we used the atmospheric modeling algorithm called MODTRAN to assess the transmittance of the atmosphere between the LCLCRF and LCLTF. We had originally requested a 2.01 micron laser because we knew of the exceptional transmittance from previous modeling exercises. When the Laser Manufacturer told us that they may not be able to reach the 2 micron goal for their 1 watt laser diode, we decided to use MODTRAN to determine the transmittance of all wavelengths between 1.4 and 2.1 to ascertain the best wavelength to shoot for if we had to settle for a shorter wavelength. Table 3-4 summarizes the worst case MODTRAN inputs we made for our design and Table A-1 in Appendix A provides the transmittance for each wavelength.



TABLE 3-4. Transmittance Model Input Data

MODEL ATMOSPHERE - STANDARD MIDLATITUDE SUMMER  
TYPE OF PATH - HORIZONTAL  
PROGRAM EVALUATION MODE - TRANSMITTANCE  
HAZE MODEL - AEROSOL ATTENUATION FOR RURAL 23 KM.  
SEASONAL PARAMETER - SPRING - SUMMER  
VOLCANIC PARAMETER - STRATOSPHERIC BACKGROUND  
CLOUD/RAIN PARAMETER - NO CLOUDS OR RAIN  
ARMY VERTICAL STRUCTURE - NO  
VISIBILITY - 23 KM  
RAIN RATE - 0 mm/HR  
ALTITUDE OF SURFACE ABOVE SEA LEVEL - .330 KM  
ALTITUDE OF TRANSMITTER ABOVE SEA LEVEL - .333 KM  
ALTITUDE OF RECEIVER ABOVE SEA LEVEL - .366 KM  
INITIAL ZENITH ANGLE - 90 DEGREES  
RADIUS OF EARTH - 6371.23 KM  
PATH LENGTH - 8 KM  
EARTH CENTER ANGLE - 0 DEGREES  
INITIAL WAVELENGTH - 4000 CM<sup>-1</sup> (2.5 MICRONS)  
FINAL WAVELENGTH IN WAVENUMBERS 6666 CM<sup>-1</sup> (1.5 MICRONS)  
STEP SIZE - 1 CM<sup>-1</sup>  
FULL WIDTH AT HALF MAX - 1 CM<sup>-1</sup>

As can be seen from Table A-1 and the graphically depicted data in Figures 3-13 through 3-19, the best wavelengths to shoot for were in the range 1.97 - 2.0 microns, with 1.9928 providing the best atmospheric transmittance. This information was provided to the laser manufacturer and 3 diodes were delivered in October 1994. The center wavelengths of the diodes included one at 1.992, Figure 3-22, and two at 1.988 microns, Figures 3-20 and 3-21. Each diode has about a 40 nanometer wavelength spread.

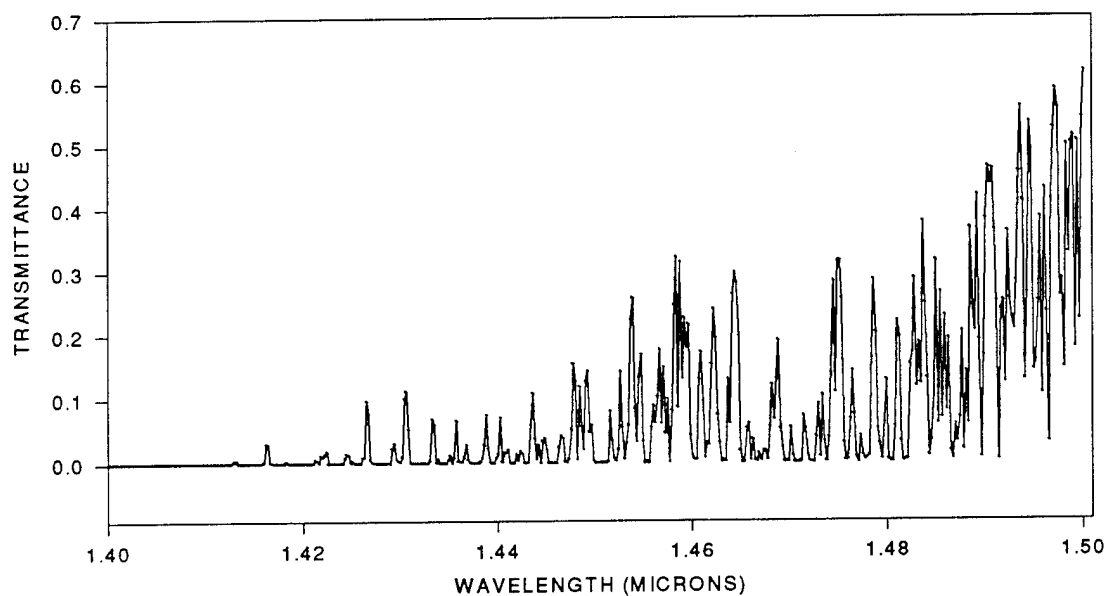


Figure 3-13. Atmospheric Transmittance Characteristics for 1.4 - 1.5 Micron Laser Wavelengths

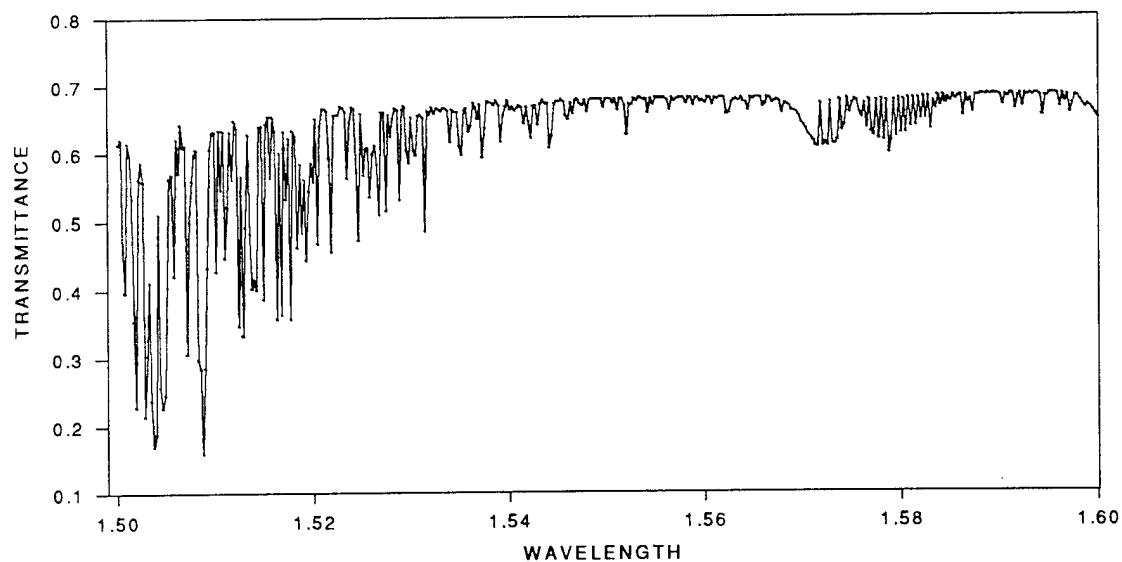


Figure 3-14. Atmospheric Transmittance Characteristics for 1.5 - 1.6 Micron Laser Wavelengths

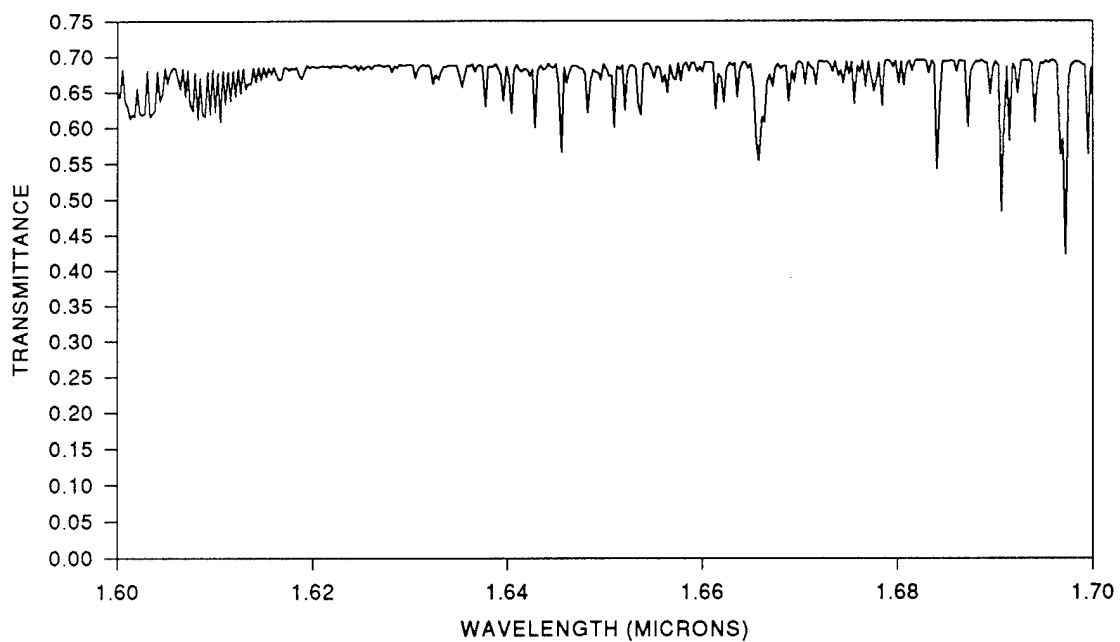


Figure 3-15. Atmospheric Transmittance Characteristics for 1.6 - 1.7 Micron Laser Wavelengths

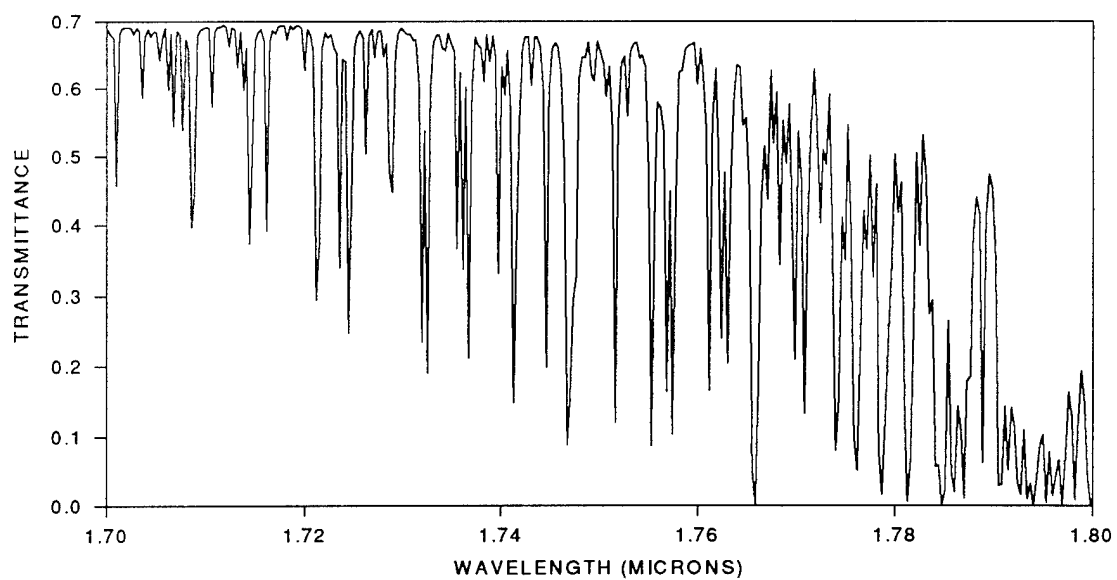


Figure 3-16. Atmospheric Transmittance Characteristics for 1.7 - 1.8 Micron Laser Wavelengths

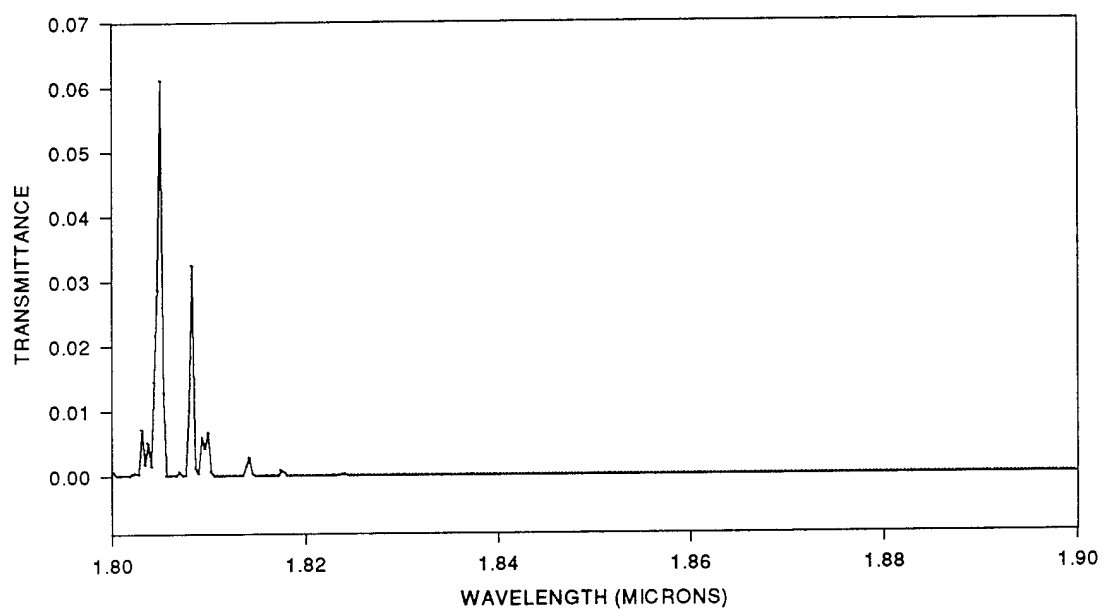


Figure 3-17. Atmospheric Transmittance Characteristics for 1.8 - 1.9 Micron Laser Wavelengths

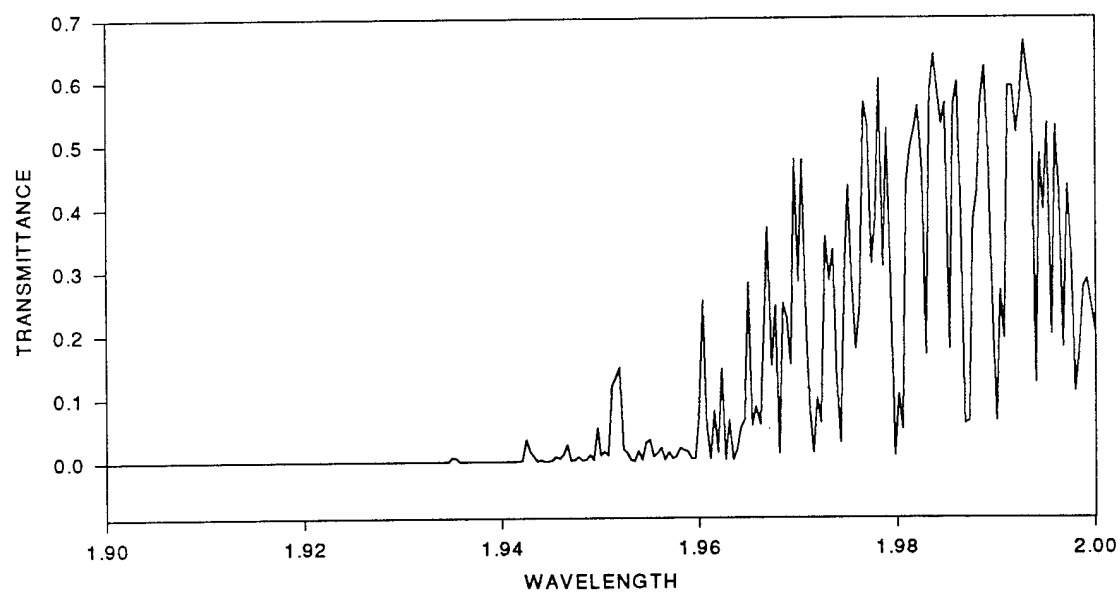


Figure 3-18. Atmospheric Transmittance Characteristics for 1.9 - 2.0 Micron Laser Wavelengths

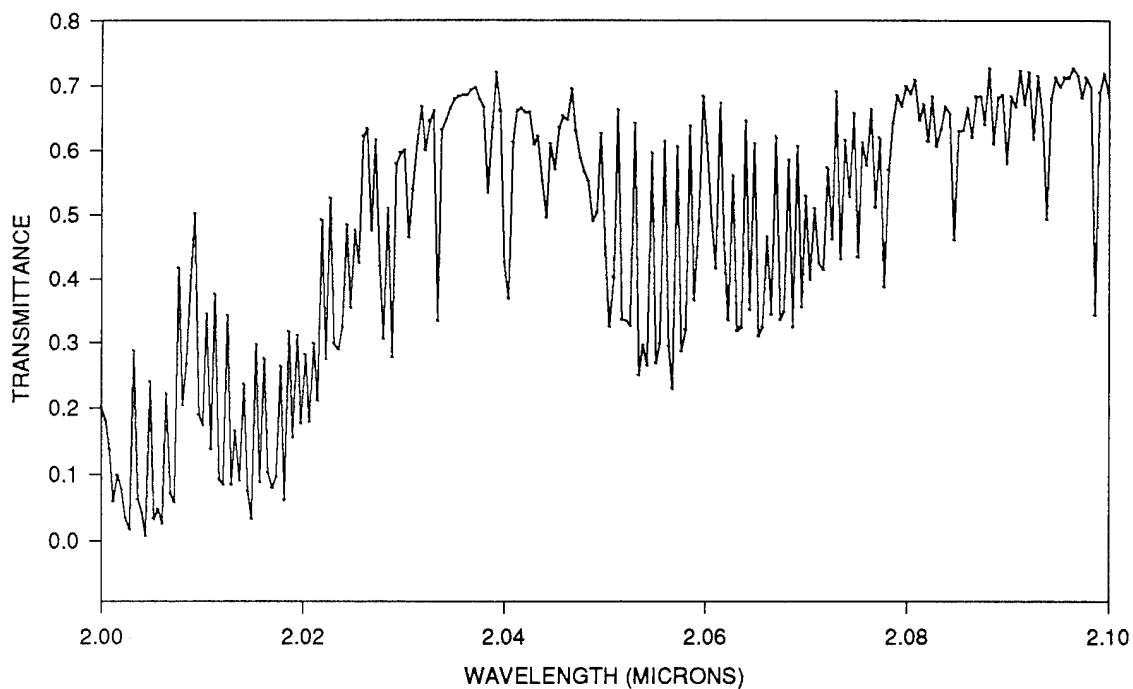


Figure 3-19. Atmospheric Transmittance Characteristics for 2.0 - 2.1 Micron Laser Wavelengths

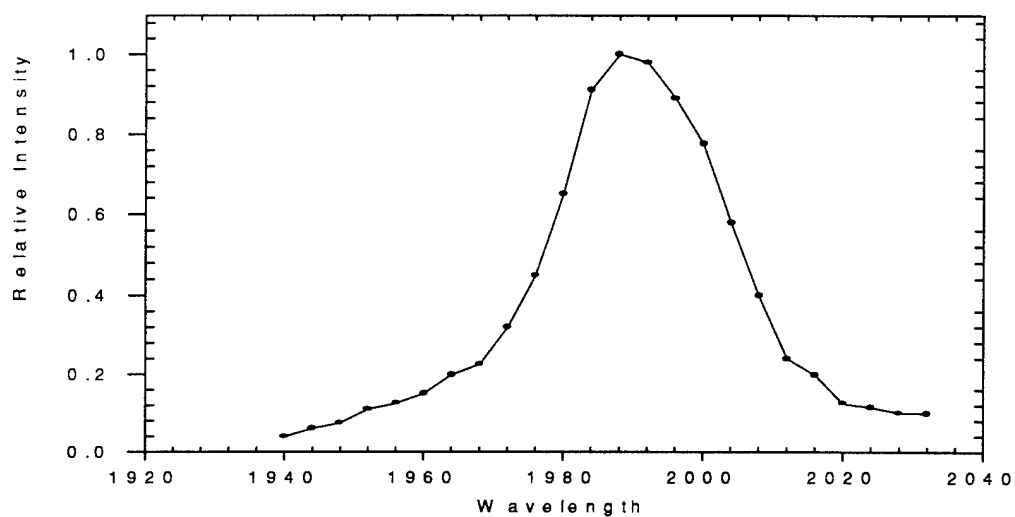


Figure 3-20 Spectral Characteristics of SDL 1 Watt 1.988  $\mu\text{m}$  Laser Diode Number AL942

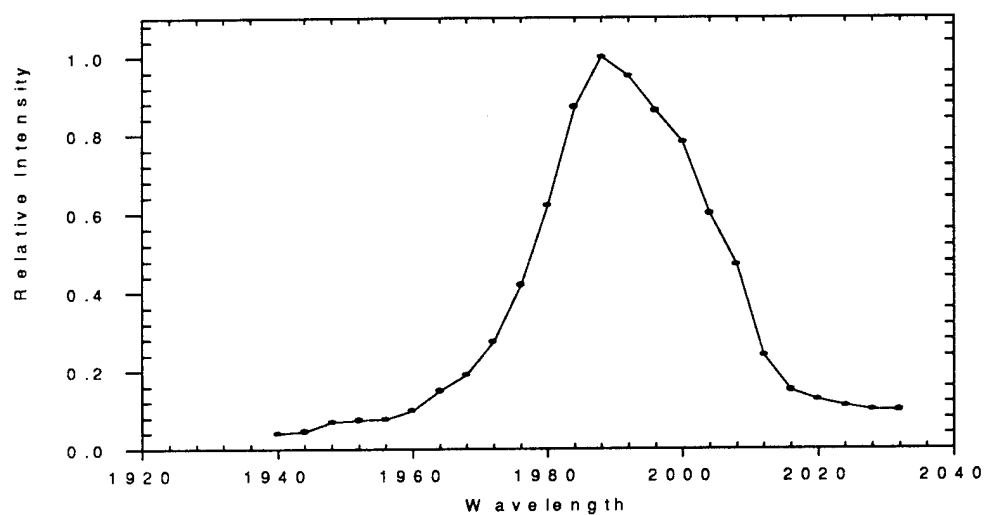


Figure 3-21 Spectral Characteristics of SDL 1 Watt 1.988  $\mu\text{m}$  Laser Diode Number AL946

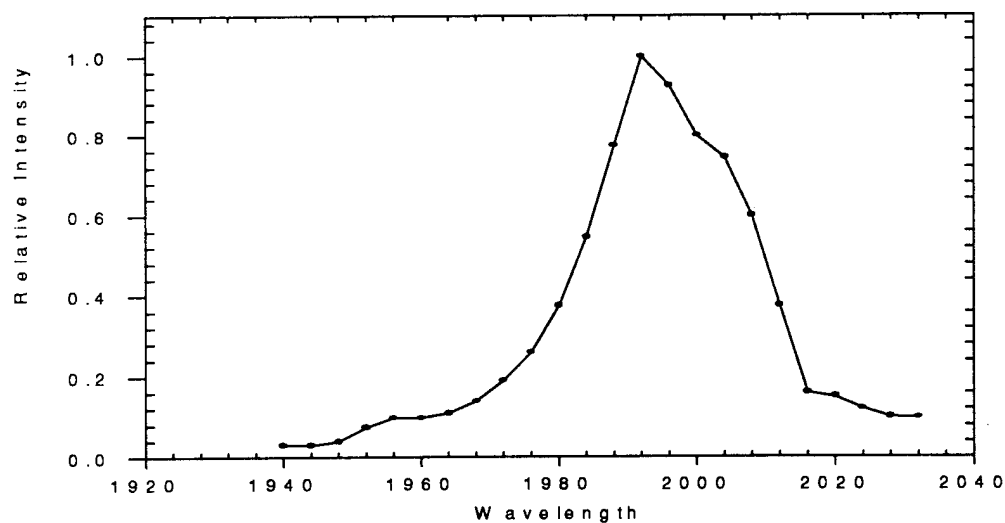


Figure 3-22 Spectral Characteristics of SDL 1 Watt 1.992  $\mu\text{m}$  Laser Diode Number AL944

After the diodes were delivered with their specifications, Modtran was again used to determine the integrated transmittance over the wavelength range which each diode radiates at. An Initial wavelength of 4975 cm<sup>-1</sup> (2010 nm) and a final wavelength of 5076 cm<sup>-1</sup> (1970 nm) were used for the analysis. All parameters in Table 3-4 remained the same. The resulting transmittance was approximately 30%. In other words, we are losing more than two thirds of our signal to atmospheric absorption.

### 3.3 Communications Equipment

The equipment used for the data communications portion of the project consisted of the laser diode purchased from SDL, an in-house built receiver and off-the-shelf protocol analyzers equipment for measuring the quality of the communications link.

#### 3.3.1 Transmitter

The laser transmitter is a Spectra Diode Laboratory AL944 laser diode(1) mounted on a thermal-electrically cooled heatsink and powered by an SDL-820 laser diode driver and is capable of 1 watt CW optical output power. The transmitter is triggered by the return to zero TTL output of an RS232 - TTL interface connected to the RS232 output of an HP4957A protocol analyzer and emits a 40-nanosecond pulse for each positive transition of the data input signal. Light radiated by the laser diode is collimated by a 3.58 inch diameter Infrared grade plano-convex lens. The maximum pulse repetition frequency of the transmitter has been determined by laboratory experimentation to be 16,800 pulses per second. Technical specifications for the SD-820 are provided in appendix B with the specifications for the laser diodes, as well as other major equipment used for the receiver such as the Eptax InGaAs photodetector.

#### 3.3.2 Receiver

The laser receiver was designed and built in-house. It consists of Celestron 90mm Maksutov Cassegrain spotter scope adapted to focus the incoming laser radiation onto an EPITAX Corporation Indium Gallium Arsenide photodiode housed with a bandpass filter in a Melles Griot modular photodetection system. A Stanford Research System Model SR530 Low Noise Current Amplifier supplies current to the detector and acts as the first stage amplifier. The signal is then amplified by a Stanford Research Systems Model SR560 low noise amplifier which supplies the needed gain and electronic filtering. The resulting Gaussian shaped pulses are fed into the trigger input of Tektronix FG507 function generator where the leading edge of the pulse causes the function generator to output one TTL compatible pulse of preset duration for every Gaussian shaped pulse of a certain preset minimum amplitude at the input. The output of the function generator was subsequently fed into a TTL - RS232 converter and then into an HP 4957A Bit Error Rate Tester for analysis.

## 4 Bit Error Rate Testing

Two HP 4957A Protocol Analyzers were used to measure the quality of the communications link. One HP 4957A was interfaced with the laser transmitter at the Trebein Test Site and the second HP 4957A was interfaced with the in-house built receiver in the LCL. Since the laser transmitter is edge triggered from the leading edge of a TTL pulse, an interface had to be built to convert the RS-232 Non-Return-to-Zero (NRZ) bit stream provided by the protocol analyzers to the TTL Return-to-Zero (RZ) format required by the Transmitter. At the receiver, the received signal was then converted to NRZ and RS-232 format by an in-house designed and built TTL-to-RS232 converter. Synchronizing was not a big problem because the protocol analyzers were asynchronous. Although the sometimes low Bit-error-rate of  $10^{-2}$  can probably be attributed to scintillation induced frequency jitter caused by a small diffraction limited aperture of the atmosphere. Bit error rates nominally were in the  $10^{-5}$  range for atmospheric conditions similar to those programmed into the MODTRAN model, with several  $10^{-6}$  Bit-error-rate exceptions.

## 5 Observations and Conclusions

The eye-safe laser communications system developed during this program is truly eye-safe as can be seen by the LHAZ results in Table 3-3. The bit-error rate approached a nominal  $10^{-5}$  during periods of weather similar to the MODTRAN model discussed earlier. This is mainly due to the fact that the laser diode is a multi-wavelength device and some of the spectral bandwidth falls in the areas where absorption is high. The system signal margin could be increased by about 3 dB, and the BER substantially reduced, by decreasing the laser diode spectral bandwidth to within just a few nanometers of the center wavelength. Another way to pick up at least 3 dB would be to select different wavelengths altogether. Table 3-2 and Figures 3-9 - 3-12 show that the same levels of eye-safety can be achieved with any wavelength over  $1.4 \mu\text{m}$  using the 3.58 cm exit aperture. Examination of Figures 3-14 and 3-15 show that there is exceptional atmospheric Transmittance between  $1.53$  and  $1.72 \mu\text{m}$  that can be exploited to provide greater than 65% transmittance using wide spectral bandwidth laser diodes. The fastest and easiest way to achieve communications in this wavelength region would be to adapt  $1.54 \mu\text{m}$  laser diode technology which has already been developed for the fiber optic industry. A nominal 63% transmittance could be achieved with diodes having a spectral bandwidth of 30 - 40 nm. An additional 3 - 5 percent of transmittance could be realized by using laser diodes in the  $1.6$  to  $1.65 \mu\text{m}$  region.

Another alternative for achieving the higher transmittances would be to use solid state lasers with extremely narrow bandwidths. However, even with a best case match, only another 3-5% of transmittance could be achieved. This would be at a cost of greater size, weight, and power requirements for the laser transmitter, and is probably not worth the effort for direct detection laser communications applications.



Further improvements in BER could also be achieved by implementing a synchronous pulse position modulation format. An asynchronous communications format was implemented for this project because the LCL did not have the required equipment to perform synchronous communications over the 8 km range.

## 6 Future LCL Efforts

The existence of the LCL has been a tremendous asset in the research and development of past and present laser communications systems and will play an even more important role in the years to come as these developmental systems become operational. Plans are to accomplish projects to improve acquisition and tracking of laser communications signals, improve optical antenna designs to allow for near omni-directional coverage, and do further research into the role that atmospheric turbulence plays in corrupting the signal.

## 7 Summary

We set out in this project to develop a laser communications system which would be capable of operating in an atmospheric environment, over short-to-medium distances, and be eye-safe for operations and maintenance personnel. We did extensive analysis using the ANSI Standard and LHAZ 2.0 to ensure that the laser transmitter would be eye-safe over an entire 8 hour workday.

We have also attempted during this program to ascertain how free space laser communications using direct photodetection is affected by the presence of the atmosphere. A great deal of effort was expended in the early part of the program to select the optimum wavelength to use in our eye-safe laser communications system. By doing this we were able to design and build our system to meet the atmospheric challenges which our modeling had predicted. We hope to carry the process a step further and accomplish atmospheric turbulence modeling and testing to be able to gather enough insight into the problems of direct photodetection free space laser communications so we can develop an automated system which can adapt itself to obtain an optimum link in the presence of low atmospheric transmittance and high atmospheric turbulence.

## Appendix A MODTRAN Transmittance Table

Table A-1 Atmospheric Transmittance Data

| wave number | wave length | trans  | H2O    | CO2    | H2O cont | MOL SCAT | Aer-Hyd | Aer-Hyd abs |
|-------------|-------------|--------|--------|--------|----------|----------|---------|-------------|
| 4761        | 2.100399    | 0.5961 | 0.8212 | 0.9802 | 0.9583   | 0.9996   | 0.7731  | 0.1288      |
| 4762        | 2.099958    | 0.6883 | 0.9483 | 0.9802 | 0.9583   | 0.9996   | 0.7731  | 0.1288      |
| 4763        | 2.099517    | 0.7174 | 0.9816 | 0.9869 | 0.9583   | 0.9996   | 0.7731  | 0.1288      |
| 4764        | 2.099076    | 0.6878 | 0.9490 | 0.9787 | 0.9583   | 0.9996   | 0.7730  | 0.1288      |
| 4765        | 2.098636    | 0.3428 | 0.4722 | 0.9803 | 0.9583   | 0.9996   | 0.7730  | 0.1288      |
| 4766        | 2.098196    | 0.6973 | 0.9562 | 0.9849 | 0.9583   | 0.9996   | 0.7730  | 0.1289      |
| 4767        | 2.097755    | 0.7112 | 0.9844 | 0.9757 | 0.9583   | 0.9996   | 0.7729  | 0.1289      |
| 4768        | 2.097315    | 0.6804 | 0.9392 | 0.9785 | 0.9583   | 0.9996   | 0.7729  | 0.1289      |
| 4769        | 2.096876    | 0.7160 | 0.9951 | 0.9718 | 0.9584   | 0.9996   | 0.7729  | 0.1289      |
| 4770        | 2.096436    | 0.7267 | 0.9973 | 0.9842 | 0.9584   | 0.9996   | 0.7728  | 0.1289      |
| 4771        | 2.095997    | 0.7113 | 0.9952 | 0.9655 | 0.9584   | 0.9996   | 0.7728  | 0.1289      |
| 4772        | 2.095557    | 0.7111 | 0.9845 | 0.9756 | 0.9584   | 0.9996   | 0.7728  | 0.1290      |
| 4773        | 2.095118    | 0.6973 | 0.9853 | 0.9561 | 0.9584   | 0.9996   | 0.7727  | 0.1290      |
| 4774        | 2.094680    | 0.7114 | 0.9836 | 0.9770 | 0.9584   | 0.9996   | 0.7727  | 0.1290      |
| 4775        | 2.094241    | 0.6786 | 0.9636 | 0.9514 | 0.9584   | 0.9996   | 0.7726  | 0.1290      |
| 4776        | 2.093802    | 0.4923 | 0.6855 | 0.9703 | 0.9584   | 0.9996   | 0.7726  | 0.1290      |
| 4777        | 2.093364    | 0.6540 | 0.9363 | 0.9437 | 0.9584   | 0.9996   | 0.7726  | 0.1290      |
| 4778        | 2.092926    | 0.7141 | 0.9896 | 0.9749 | 0.9584   | 0.9996   | 0.7725  | 0.1290      |
| 4779        | 2.092488    | 0.6168 | 0.8986 | 0.9274 | 0.9584   | 0.9996   | 0.7725  | 0.1291      |
| 4780        | 2.092050    | 0.7199 | 0.9941 | 0.9786 | 0.9584   | 0.9996   | 0.7725  | 0.1291      |
| 4781        | 2.091613    | 0.6692 | 0.9885 | 0.9147 | 0.9584   | 0.9996   | 0.7724  | 0.1291      |
| 4782        | 2.091175    | 0.7224 | 0.9940 | 0.9822 | 0.9584   | 0.9996   | 0.7724  | 0.1291      |
| 4783        | 2.090738    | 0.6660 | 0.9926 | 0.9068 | 0.9584   | 0.9996   | 0.7724  | 0.1291      |
| 4784        | 2.090301    | 0.6825 | 0.9895 | 0.9322 | 0.9585   | 0.9996   | 0.7723  | 0.1291      |
| 4785        | 2.089864    | 0.5785 | 0.8319 | 0.9399 | 0.9585   | 0.9996   | 0.7723  | 0.1292      |
| 4786        | 2.089427    | 0.6849 | 0.9893 | 0.9358 | 0.9585   | 0.9996   | 0.7723  | 0.1292      |
| 4787        | 2.088991    | 0.6801 | 0.9862 | 0.9321 | 0.9585   | 0.9996   | 0.7722  | 0.1292      |
| 4788        | 2.088555    | 0.6092 | 0.9321 | 0.8834 | 0.9585   | 0.9996   | 0.7722  | 0.1292      |
| 4789        | 2.088119    | 0.7249 | 0.9970 | 0.9828 | 0.9585   | 0.9996   | 0.7722  | 0.1292      |
| 4790        | 2.087683    | 0.6394 | 0.9849 | 0.8776 | 0.9585   | 0.9996   | 0.7721  | 0.1292      |
| 4791        | 2.087247    | 0.6827 | 0.9955 | 0.9270 | 0.9585   | 0.9996   | 0.7721  | 0.1293      |
| 4792        | 2.086811    | 0.6827 | 0.9954 | 0.9272 | 0.9585   | 0.9996   | 0.7721  | 0.1293      |
| 4793        | 2.086376    | 0.6199 | 0.9153 | 0.9156 | 0.9586   | 0.9996   | 0.7720  | 0.1293      |
| 4794        | 2.085941    | 0.6649 | 0.9738 | 0.9230 | 0.9586   | 0.9996   | 0.7720  | 0.1293      |
| 4795        | 2.085506    | 0.6302 | 0.9911 | 0.8596 | 0.9586   | 0.9996   | 0.7719  | 0.1293      |
| 4796        | 2.085071    | 0.6288 | 0.9365 | 0.9078 | 0.9586   | 0.9996   | 0.7719  | 0.1293      |
| 4797        | 2.084636    | 0.4606 | 0.6795 | 0.9164 | 0.9586   | 0.9996   | 0.7719  | 0.1293      |
| 4798        | 2.084202    | 0.6563 | 0.9685 | 0.9161 | 0.9587   | 0.9996   | 0.7718  | 0.1294      |
| 4799        | 2.083767    | 0.6671 | 0.9881 | 0.9129 | 0.9587   | 0.9996   | 0.7718  | 0.1294      |
| 4800        | 2.083333    | 0.6318 | 0.9848 | 0.8674 | 0.9587   | 0.9996   | 0.7718  | 0.1294      |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 4801 | 2.082899 | 0.6052 | 0.8909 | 0.9186 | 0.9587 | 0.9996 | 0.7717 | 0.1294 |
| 4802 | 2.082466 | 0.6815 | 0.9913 | 0.9296 | 0.9587 | 0.9996 | 0.7717 | 0.1294 |
| 4803 | 2.082032 | 0.6134 | 0.9045 | 0.9171 | 0.9587 | 0.9996 | 0.7717 | 0.1294 |
| 4804 | 2.081599 | 0.6702 | 0.9574 | 0.9466 | 0.9587 | 0.9996 | 0.7716 | 0.1295 |
| 4805 | 2.081165 | 0.6463 | 0.9659 | 0.9049 | 0.9587 | 0.9996 | 0.7716 | 0.1295 |
| 4806 | 2.080732 | 0.7082 | 0.9978 | 0.9599 | 0.9587 | 0.9996 | 0.7716 | 0.1295 |
| 4807 | 2.080300 | 0.6867 | 0.9984 | 0.9302 | 0.9587 | 0.9996 | 0.7715 | 0.1295 |
| 4808 | 2.079867 | 0.6987 | 0.9980 | 0.9469 | 0.9587 | 0.9996 | 0.7715 | 0.1295 |
| 4809 | 2.079434 | 0.6674 | 0.9969 | 0.9056 | 0.9587 | 0.9996 | 0.7715 | 0.1295 |
| 4810 | 2.079002 | 0.6840 | 0.9667 | 0.9570 | 0.9588 | 0.9996 | 0.7714 | 0.1295 |
| 4811 | 2.078570 | 0.6408 | 0.9862 | 0.8789 | 0.9588 | 0.9996 | 0.7714 | 0.1296 |
| 4812 | 2.078138 | 0.5688 | 0.8482 | 0.9071 | 0.9587 | 0.9996 | 0.7714 | 0.1296 |
| 4813 | 2.077706 | 0.3873 | 0.6314 | 0.8298 | 0.9587 | 0.9996 | 0.7713 | 0.1296 |
| 4814 | 2.077275 | 0.6187 | 0.9050 | 0.9249 | 0.9587 | 0.9996 | 0.7713 | 0.1296 |
| 4815 | 2.076843 | 0.5116 | 0.8866 | 0.7808 | 0.9587 | 0.9996 | 0.7713 | 0.1296 |
| 4816 | 2.076412 | 0.6638 | 0.9890 | 0.9082 | 0.9587 | 0.9996 | 0.7712 | 0.1296 |
| 4817 | 2.075981 | 0.5764 | 0.9950 | 0.7838 | 0.9587 | 0.9996 | 0.7712 | 0.1297 |
| 4818 | 2.075550 | 0.6118 | 0.9809 | 0.8440 | 0.9587 | 0.9996 | 0.7712 | 0.1297 |
| 4819 | 2.075119 | 0.4339 | 0.8333 | 0.7047 | 0.9587 | 0.9996 | 0.7711 | 0.1297 |
| 4820 | 2.074689 | 0.6573 | 0.9888 | 0.8996 | 0.9587 | 0.9996 | 0.7711 | 0.1297 |
| 4821 | 2.074258 | 0.5279 | 0.9962 | 0.7172 | 0.9587 | 0.9996 | 0.7711 | 0.1297 |
| 4822 | 2.073828 | 0.6152 | 0.9943 | 0.8375 | 0.9587 | 0.9996 | 0.7710 | 0.1297 |
| 4823 | 2.073398 | 0.4313 | 0.8888 | 0.6568 | 0.9587 | 0.9996 | 0.7710 | 0.1297 |
| 4824 | 2.072968 | 0.6904 | 0.9838 | 0.9499 | 0.9587 | 0.9996 | 0.7709 | 0.1298 |
| 4825 | 2.072539 | 0.4625 | 0.9953 | 0.6290 | 0.9587 | 0.9996 | 0.7709 | 0.1298 |
| 4826 | 2.072109 | 0.5713 | 0.9123 | 0.8478 | 0.9587 | 0.9996 | 0.7709 | 0.1298 |
| 4827 | 2.071680 | 0.4148 | 0.9403 | 0.5972 | 0.9587 | 0.9996 | 0.7708 | 0.1298 |
| 4828 | 2.071251 | 0.4241 | 0.9468 | 0.6065 | 0.9587 | 0.9996 | 0.7708 | 0.1298 |
| 4829 | 2.070822 | 0.5100 | 0.8044 | 0.8585 | 0.9586 | 0.9996 | 0.7708 | 0.1298 |
| 4830 | 2.070393 | 0.3988 | 0.9644 | 0.5600 | 0.9586 | 0.9996 | 0.7707 | 0.1299 |
| 4831 | 2.069965 | 0.5284 | 0.8231 | 0.8692 | 0.9586 | 0.9996 | 0.7707 | 0.1299 |
| 4832 | 2.069536 | 0.3559 | 0.8753 | 0.5506 | 0.9586 | 0.9996 | 0.7707 | 0.1299 |
| 4833 | 2.069108 | 0.6062 | 0.9408 | 0.8726 | 0.9586 | 0.9996 | 0.7706 | 0.1299 |
| 4834 | 2.068680 | 0.3247 | 0.8368 | 0.5255 | 0.9586 | 0.9996 | 0.7706 | 0.1299 |
| 4835 | 2.068252 | 0.5832 | 0.9041 | 0.8736 | 0.9586 | 0.9996 | 0.7706 | 0.1299 |
| 4836 | 2.067825 | 0.3483 | 0.9779 | 0.4824 | 0.9586 | 0.9996 | 0.7705 | 0.1299 |
| 4837 | 2.067397 | 0.3357 | 0.9642 | 0.4716 | 0.9586 | 0.9996 | 0.7705 | 0.1300 |
| 4838 | 2.066970 | 0.6206 | 0.9644 | 0.8717 | 0.9586 | 0.9996 | 0.7705 | 0.1300 |
| 4839 | 2.066543 | 0.3442 | 0.9794 | 0.4761 | 0.9586 | 0.9996 | 0.7704 | 0.1300 |
| 4840 | 2.066116 | 0.4663 | 0.7244 | 0.8721 | 0.9586 | 0.9996 | 0.7704 | 0.1300 |
| 4841 | 2.065689 | 0.3238 | 0.9746 | 0.4500 | 0.9586 | 0.9996 | 0.7704 | 0.1300 |
| 4842 | 2.065262 | 0.3102 | 0.9344 | 0.4498 | 0.9586 | 0.9996 | 0.7703 | 0.1300 |
| 4843 | 2.064836 | 0.6104 | 0.9393 | 0.8804 | 0.9586 | 0.9996 | 0.7703 | 0.1301 |
| 4844 | 2.064410 | 0.3511 | 0.9953 | 0.4780 | 0.9586 | 0.9996 | 0.7703 | 0.1301 |
| 4845 | 2.063983 | 0.6450 | 0.9896 | 0.8832 | 0.9586 | 0.9996 | 0.7702 | 0.1301 |
| 4846 | 2.063558 | 0.3244 | 0.9177 | 0.4790 | 0.9586 | 0.9996 | 0.7702 | 0.1301 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 4847 | 2.063132 | 0.3181 | 0.8551 | 0.5040 | 0.9586 | 0.9996 | 0.7702 | 0.1301 |
| 4848 | 2.062706 | 0.5602 | 0.8422 | 0.9015 | 0.9586 | 0.9996 | 0.7701 | 0.1301 |
| 4849 | 2.062281 | 0.3352 | 0.8138 | 0.5583 | 0.9586 | 0.9996 | 0.7701 | 0.1301 |
| 4850 | 2.061856 | 0.4559 | 0.9853 | 0.6271 | 0.9586 | 0.9996 | 0.7701 | 0.1302 |
| 4851 | 2.061431 | 0.6734 | 0.9774 | 0.9338 | 0.9586 | 0.9996 | 0.7700 | 0.1302 |
| 4852 | 2.061006 | 0.4169 | 0.7427 | 0.7609 | 0.9586 | 0.9996 | 0.7700 | 0.1302 |
| 4853 | 2.060581 | 0.4949 | 0.7046 | 0.9522 | 0.9586 | 0.9996 | 0.7700 | 0.1302 |
| 4854 | 2.060157 | 0.6109 | 0.9768 | 0.8478 | 0.9586 | 0.9996 | 0.7699 | 0.1302 |
| 4855 | 2.059732 | 0.6819 | 0.9844 | 0.9391 | 0.9586 | 0.9996 | 0.7699 | 0.1302 |
| 4856 | 2.059308 | 0.4890 | 0.9860 | 0.6723 | 0.9586 | 0.9996 | 0.7699 | 0.1302 |
| 4857 | 2.058884 | 0.3668 | 0.8596 | 0.5784 | 0.9586 | 0.9996 | 0.7698 | 0.1303 |
| 4858 | 2.058460 | 0.6371 | 0.9543 | 0.9051 | 0.9585 | 0.9996 | 0.7698 | 0.1303 |
| 4859 | 2.058037 | 0.3202 | 0.8599 | 0.5049 | 0.9585 | 0.9996 | 0.7698 | 0.1303 |
| 4860 | 2.057613 | 0.2872 | 0.8178 | 0.4762 | 0.9585 | 0.9996 | 0.7697 | 0.1303 |
| 4861 | 2.057190 | 0.6055 | 0.9704 | 0.8462 | 0.9585 | 0.9996 | 0.7697 | 0.1303 |
| 4862 | 2.056767 | 0.2291 | 0.7008 | 0.4433 | 0.9585 | 0.9996 | 0.7697 | 0.1303 |
| 4863 | 2.056344 | 0.2949 | 0.9486 | 0.4216 | 0.9585 | 0.9996 | 0.7696 | 0.1304 |
| 4864 | 2.055921 | 0.6139 | 0.9695 | 0.8588 | 0.9585 | 0.9996 | 0.7696 | 0.1304 |
| 4865 | 2.055498 | 0.2990 | 0.9834 | 0.4123 | 0.9584 | 0.9996 | 0.7696 | 0.1304 |
| 4866 | 2.055076 | 0.2687 | 0.8657 | 0.4210 | 0.9584 | 0.9996 | 0.7695 | 0.1304 |
| 4867 | 2.054654 | 0.5958 | 0.9868 | 0.8190 | 0.9584 | 0.9996 | 0.7695 | 0.1304 |
| 4868 | 2.054232 | 0.2653 | 0.8419 | 0.4276 | 0.9584 | 0.9996 | 0.7695 | 0.1304 |
| 4869 | 2.053810 | 0.2971 | 0.9833 | 0.4099 | 0.9584 | 0.9996 | 0.7694 | 0.1304 |
| 4870 | 2.053388 | 0.2501 | 0.7686 | 0.4415 | 0.9583 | 0.9996 | 0.7694 | 0.1305 |
| 4871 | 2.052967 | 0.6419 | 0.9901 | 0.8798 | 0.9583 | 0.9996 | 0.7694 | 0.1305 |
| 4872 | 2.052545 | 0.3259 | 0.9446 | 0.4681 | 0.9583 | 0.9996 | 0.7693 | 0.1305 |
| 4873 | 2.052124 | 0.3348 | 0.9215 | 0.4931 | 0.9583 | 0.9996 | 0.7693 | 0.1305 |
| 4874 | 2.051703 | 0.3355 | 0.8801 | 0.5174 | 0.9583 | 0.9996 | 0.7693 | 0.1305 |
| 4875 | 2.051282 | 0.6625 | 0.9868 | 0.9112 | 0.9582 | 0.9996 | 0.7692 | 0.1305 |
| 4876 | 2.050861 | 0.4031 | 0.9856 | 0.5551 | 0.9582 | 0.9996 | 0.7692 | 0.1305 |
| 4877 | 2.050441 | 0.3250 | 0.7383 | 0.5975 | 0.9582 | 0.9996 | 0.7692 | 0.1306 |
| 4878 | 2.050021 | 0.4487 | 0.9842 | 0.6189 | 0.9582 | 0.9996 | 0.7691 | 0.1306 |
| 4879 | 2.049600 | 0.6264 | 0.9527 | 0.8927 | 0.9581 | 0.9996 | 0.7691 | 0.1306 |
| 4880 | 2.049180 | 0.5040 | 0.9944 | 0.6882 | 0.9581 | 0.9996 | 0.7691 | 0.1306 |
| 4881 | 2.048760 | 0.4908 | 0.9607 | 0.6936 | 0.9581 | 0.9996 | 0.7690 | 0.1306 |
| 4882 | 2.048341 | 0.5528 | 0.9947 | 0.7547 | 0.9581 | 0.9996 | 0.7690 | 0.1306 |
| 4883 | 2.047921 | 0.5655 | 0.9977 | 0.7697 | 0.9580 | 0.9996 | 0.7690 | 0.1307 |
| 4884 | 2.047502 | 0.5885 | 0.9980 | 0.8008 | 0.9580 | 0.9996 | 0.7689 | 0.1307 |
| 4885 | 2.047083 | 0.6289 | 0.9911 | 0.8620 | 0.9580 | 0.9996 | 0.7689 | 0.1307 |
| 4886 | 2.046664 | 0.6946 | 0.9856 | 0.9573 | 0.9580 | 0.9996 | 0.7689 | 0.1307 |
| 4887 | 2.046245 | 0.6467 | 0.9976 | 0.8806 | 0.9579 | 0.9996 | 0.7688 | 0.1307 |
| 4888 | 2.045827 | 0.6520 | 0.9890 | 0.8955 | 0.9579 | 0.9996 | 0.7688 | 0.1307 |
| 4889 | 2.045408 | 0.6350 | 0.9370 | 0.9207 | 0.9579 | 0.9996 | 0.7688 | 0.1307 |
| 4890 | 2.044990 | 0.5700 | 0.8436 | 0.9180 | 0.9579 | 0.9996 | 0.7687 | 0.1308 |
| 4891 | 2.044572 | 0.6099 | 0.9130 | 0.9078 | 0.9578 | 0.9996 | 0.7687 | 0.1308 |
| 4892 | 2.044154 | 0.4958 | 0.7040 | 0.9572 | 0.9578 | 0.9996 | 0.7687 | 0.1308 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 4893 | 2.043736 | 0.5522 | 0.8115 | 0.9248 | 0.9577 | 0.9996 | 0.7686 | 0.1308 |
| 4894 | 2.043318 | 0.6217 | 0.9172 | 0.9213 | 0.9577 | 0.9995 | 0.7686 | 0.1308 |
| 4895 | 2.042901 | 0.6084 | 0.8519 | 0.9708 | 0.9576 | 0.9995 | 0.7686 | 0.1308 |
| 4896 | 2.042484 | 0.6598 | 0.9886 | 0.9073 | 0.9575 | 0.9995 | 0.7685 | 0.1308 |
| 4897 | 2.042067 | 0.6581 | 0.9751 | 0.9176 | 0.9575 | 0.9995 | 0.7685 | 0.1309 |
| 4898 | 2.041650 | 0.6649 | 0.9834 | 0.9193 | 0.9574 | 0.9995 | 0.7685 | 0.1309 |
| 4899 | 2.041233 | 0.6617 | 0.9201 | 0.9781 | 0.9574 | 0.9995 | 0.7684 | 0.1309 |
| 4900 | 2.040816 | 0.6124 | 0.9125 | 0.9127 | 0.9573 | 0.9995 | 0.7684 | 0.1309 |
| 4901 | 2.040400 | 0.3690 | 0.5447 | 0.9216 | 0.9572 | 0.9995 | 0.7684 | 0.1309 |
| 4902 | 2.039984 | 0.4253 | 0.6233 | 0.9283 | 0.9572 | 0.9995 | 0.7683 | 0.1309 |
| 4903 | 2.039568 | 0.6604 | 0.9698 | 0.9265 | 0.9571 | 0.9995 | 0.7683 | 0.1310 |
| 4904 | 2.039152 | 0.7197 | 0.9883 | 0.9909 | 0.9570 | 0.9995 | 0.7683 | 0.1310 |
| 4905 | 2.038736 | 0.6348 | 0.9216 | 0.9374 | 0.9570 | 0.9995 | 0.7682 | 0.1310 |
| 4906 | 2.038320 | 0.5335 | 0.7713 | 0.9414 | 0.9569 | 0.9995 | 0.7682 | 0.1310 |
| 4907 | 2.037905 | 0.6667 | 0.9599 | 0.9454 | 0.9568 | 0.9995 | 0.7682 | 0.1310 |
| 4908 | 2.037490 | 0.6782 | 0.9872 | 0.9353 | 0.9567 | 0.9995 | 0.7681 | 0.1310 |
| 4909 | 2.037075 | 0.6970 | 0.9973 | 0.9516 | 0.9567 | 0.9995 | 0.7681 | 0.1310 |
| 4910 | 2.036660 | 0.6931 | 0.9933 | 0.9502 | 0.9566 | 0.9995 | 0.7681 | 0.1311 |
| 4911 | 2.036245 | 0.6849 | 0.9917 | 0.9405 | 0.9565 | 0.9995 | 0.7680 | 0.1311 |
| 4912 | 2.035831 | 0.6853 | 0.9858 | 0.9469 | 0.9564 | 0.9995 | 0.7680 | 0.1311 |
| 4913 | 2.035416 | 0.6833 | 0.9933 | 0.9372 | 0.9563 | 0.9995 | 0.7680 | 0.1311 |
| 4914 | 2.035002 | 0.6786 | 0.9922 | 0.9319 | 0.9562 | 0.9995 | 0.7679 | 0.1311 |
| 4915 | 2.034588 | 0.6645 | 0.9373 | 0.9661 | 0.9561 | 0.9995 | 0.7679 | 0.1311 |
| 4916 | 2.034174 | 0.6477 | 0.9763 | 0.9042 | 0.9560 | 0.9995 | 0.7679 | 0.1311 |
| 4917 | 2.033760 | 0.6308 | 0.8875 | 0.9689 | 0.9559 | 0.9995 | 0.7678 | 0.1312 |
| 4918 | 2.033347 | 0.3342 | 0.5030 | 0.9059 | 0.9558 | 0.9995 | 0.7678 | 0.1312 |
| 4919 | 2.032934 | 0.6606 | 0.9611 | 0.9371 | 0.9557 | 0.9995 | 0.7678 | 0.1312 |
| 4920 | 2.032520 | 0.6443 | 0.9741 | 0.9021 | 0.9556 | 0.9995 | 0.7677 | 0.1312 |
| 4921 | 2.032107 | 0.5999 | 0.8769 | 0.9331 | 0.9554 | 0.9995 | 0.7677 | 0.1312 |
| 4922 | 2.031694 | 0.6676 | 0.9657 | 0.9431 | 0.9553 | 0.9995 | 0.7677 | 0.1312 |
| 4923 | 2.031282 | 0.6106 | 0.9755 | 0.8540 | 0.9552 | 0.9995 | 0.7676 | 0.1312 |
| 4924 | 2.030869 | 0.5381 | 0.7793 | 0.9424 | 0.9550 | 0.9995 | 0.7676 | 0.1313 |
| 4925 | 2.030457 | 0.4649 | 0.7933 | 0.7999 | 0.9549 | 0.9995 | 0.7676 | 0.1313 |
| 4926 | 2.030045 | 0.6004 | 0.8497 | 0.9647 | 0.9548 | 0.9995 | 0.7675 | 0.1313 |
| 4927 | 2.029633 | 0.5950 | 0.9198 | 0.8832 | 0.9546 | 0.9995 | 0.7675 | 0.1313 |
| 4928 | 2.029221 | 0.5775 | 0.9342 | 0.8443 | 0.9545 | 0.9995 | 0.7675 | 0.1313 |
| 4929 | 2.028809 | 0.2781 | 0.4216 | 0.9011 | 0.9544 | 0.9995 | 0.7674 | 0.1313 |
| 4930 | 2.028398 | 0.5101 | 0.9001 | 0.7743 | 0.9542 | 0.9995 | 0.7674 | 0.1313 |
| 4931 | 2.027986 | 0.3064 | 0.4740 | 0.8831 | 0.9541 | 0.9995 | 0.7674 | 0.1314 |
| 4932 | 2.027575 | 0.4193 | 0.7922 | 0.7233 | 0.9540 | 0.9995 | 0.7673 | 0.1314 |
| 4933 | 2.027164 | 0.6152 | 0.9703 | 0.8667 | 0.9538 | 0.9995 | 0.7673 | 0.1314 |
| 4934 | 2.026753 | 0.4750 | 0.9840 | 0.6601 | 0.9537 | 0.9995 | 0.7673 | 0.1314 |
| 4935 | 2.026342 | 0.6325 | 0.9860 | 0.8772 | 0.9536 | 0.9995 | 0.7672 | 0.1314 |
| 4936 | 2.025932 | 0.6209 | 0.9887 | 0.8590 | 0.9534 | 0.9995 | 0.7672 | 0.1314 |
| 4937 | 2.025522 | 0.4247 | 0.9659 | 0.6015 | 0.9533 | 0.9995 | 0.7672 | 0.1315 |
| 4938 | 2.025111 | 0.4757 | 0.7898 | 0.8241 | 0.9531 | 0.9995 | 0.7671 | 0.1315 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 4939 | 2.024701 | 0.3544 | 0.8928 | 0.5433 | 0.9530 | 0.9995 | 0.7671 | 0.1315 |
| 4940 | 2.024291 | 0.4844 | 0.8102 | 0.8184 | 0.9529 | 0.9995 | 0.7671 | 0.1315 |
| 4941 | 2.023882 | 0.3254 | 0.9118 | 0.4886 | 0.9527 | 0.9995 | 0.7670 | 0.1315 |
| 4942 | 2.023472 | 0.2900 | 0.5049 | 0.7866 | 0.9526 | 0.9995 | 0.7670 | 0.1315 |
| 4943 | 2.023063 | 0.2977 | 0.9364 | 0.4353 | 0.9524 | 0.9995 | 0.7670 | 0.1315 |
| 4944 | 2.022654 | 0.5244 | 0.9724 | 0.7387 | 0.9523 | 0.9995 | 0.7669 | 0.1316 |
| 4945 | 2.022245 | 0.2749 | 0.9764 | 0.3858 | 0.9522 | 0.9995 | 0.7669 | 0.1316 |
| 4946 | 2.021836 | 0.4918 | 0.9634 | 0.6996 | 0.9520 | 0.9995 | 0.7669 | 0.1316 |
| 4947 | 2.021427 | 0.2107 | 0.9369 | 0.3082 | 0.9519 | 0.9995 | 0.7668 | 0.1316 |
| 4948 | 2.021019 | 0.2989 | 0.5327 | 0.7693 | 0.9517 | 0.9995 | 0.7668 | 0.1316 |
| 4949 | 2.020610 | 0.1791 | 0.9207 | 0.2666 | 0.9516 | 0.9995 | 0.7668 | 0.1316 |
| 4950 | 2.020202 | 0.2820 | 0.6027 | 0.6418 | 0.9515 | 0.9995 | 0.7667 | 0.1316 |
| 4951 | 2.019794 | 0.1762 | 0.9458 | 0.2555 | 0.9512 | 0.9995 | 0.7667 | 0.1317 |
| 4952 | 2.019386 | 0.3112 | 0.7090 | 0.6022 | 0.9510 | 0.9995 | 0.7667 | 0.1317 |
| 4953 | 2.018978 | 0.1548 | 0.9578 | 0.2218 | 0.9508 | 0.9995 | 0.7666 | 0.1317 |
| 4954 | 2.018571 | 0.3172 | 0.7327 | 0.5944 | 0.9505 | 0.9995 | 0.7666 | 0.1317 |
| 4955 | 2.018163 | 0.0609 | 0.4292 | 0.1949 | 0.9503 | 0.9995 | 0.7666 | 0.1317 |
| 4956 | 2.017756 | 0.2634 | 0.7604 | 0.4758 | 0.9501 | 0.9995 | 0.7666 | 0.1317 |
| 4957 | 2.017349 | 0.0964 | 0.7611 | 0.1741 | 0.9498 | 0.9995 | 0.7665 | 0.1317 |
| 4958 | 2.016942 | 0.0791 | 0.1997 | 0.5442 | 0.9496 | 0.9995 | 0.7665 | 0.1318 |
| 4959 | 2.016536 | 0.1019 | 0.8776 | 0.1596 | 0.9494 | 0.9995 | 0.7665 | 0.1318 |
| 4960 | 2.016129 | 0.2743 | 0.7080 | 0.5328 | 0.9491 | 0.9995 | 0.7664 | 0.1318 |
| 4961 | 2.015723 | 0.0876 | 0.8607 | 0.1400 | 0.9488 | 0.9995 | 0.7664 | 0.1318 |
| 4962 | 2.015316 | 0.2974 | 0.7958 | 0.5143 | 0.9486 | 0.9995 | 0.7664 | 0.1318 |
| 4963 | 2.014910 | 0.0327 | 0.3982 | 0.1129 | 0.9483 | 0.9995 | 0.7663 | 0.1318 |
| 4964 | 2.014504 | 0.0743 | 0.9229 | 0.1108 | 0.9480 | 0.9995 | 0.7663 | 0.1318 |
| 4965 | 2.014099 | 0.2349 | 0.6865 | 0.4714 | 0.9477 | 0.9995 | 0.7663 | 0.1319 |
| 4966 | 2.013693 | 0.0899 | 0.9068 | 0.1366 | 0.9475 | 0.9995 | 0.7662 | 0.1319 |
| 4967 | 2.013288 | 0.1646 | 0.4224 | 0.5373 | 0.9472 | 0.9995 | 0.7662 | 0.1319 |
| 4968 | 2.012882 | 0.0836 | 0.8584 | 0.1342 | 0.9469 | 0.9995 | 0.7662 | 0.1319 |
| 4969 | 2.012477 | 0.3424 | 0.9622 | 0.4908 | 0.9466 | 0.9995 | 0.7661 | 0.1319 |
| 4970 | 2.012072 | 0.0840 | 0.9375 | 0.1236 | 0.9464 | 0.9995 | 0.7661 | 0.1319 |
| 4971 | 2.011668 | 0.0922 | 0.9895 | 0.1287 | 0.9461 | 0.9995 | 0.7661 | 0.1319 |
| 4972 | 2.011263 | 0.3746 | 0.9675 | 0.5347 | 0.9458 | 0.9995 | 0.7660 | 0.1320 |
| 4973 | 2.010859 | 0.1367 | 0.9652 | 0.1957 | 0.9455 | 0.9995 | 0.7660 | 0.1320 |
| 4974 | 2.010454 | 0.3436 | 0.9897 | 0.4798 | 0.9452 | 0.9995 | 0.7660 | 0.1320 |
| 4975 | 2.010050 | 0.1738 | 0.9714 | 0.2473 | 0.9449 | 0.9995 | 0.7659 | 0.1320 |
| 4976 | 2.009646 | 0.1890 | 0.9021 | 0.2898 | 0.9446 | 0.9995 | 0.7659 | 0.1320 |
| 4977 | 2.009243 | 0.5019 | 0.9825 | 0.7067 | 0.9443 | 0.9995 | 0.7659 | 0.1320 |
| 4978 | 2.008839 | 0.4037 | 0.9457 | 0.5908 | 0.9440 | 0.9995 | 0.7658 | 0.1320 |
| 4979 | 2.008435 | 0.2674 | 0.9667 | 0.3829 | 0.9437 | 0.9995 | 0.7658 | 0.1321 |
| 4980 | 2.008032 | 0.2041 | 0.9593 | 0.2947 | 0.9434 | 0.9995 | 0.7658 | 0.1321 |
| 4981 | 2.007629 | 0.4165 | 0.9456 | 0.6102 | 0.9430 | 0.9995 | 0.7657 | 0.1321 |
| 4982 | 2.007226 | 0.0574 | 0.4609 | 0.1725 | 0.9427 | 0.9995 | 0.7657 | 0.1321 |
| 4983 | 2.006823 | 0.0702 | 0.6804 | 0.1431 | 0.9424 | 0.9995 | 0.7657 | 0.1321 |
| 4984 | 2.006421 | 0.2210 | 0.6764 | 0.4532 | 0.9420 | 0.9995 | 0.7657 | 0.1321 |

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|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 4985 | 2.006018 | 0.0255 | 0.3164 | 0.1119 | 0.9417 | 0.9995 | 0.7656 | 0.1321 |
| 4986 | 2.005616 | 0.0471 | 0.7079 | 0.0924 | 0.9414 | 0.9995 | 0.7656 | 0.1322 |
| 4987 | 2.005214 | 0.0322 | 0.4742 | 0.0944 | 0.9410 | 0.9995 | 0.7656 | 0.1322 |
| 4988 | 2.004812 | 0.2386 | 0.7844 | 0.4225 | 0.9407 | 0.9995 | 0.7655 | 0.1322 |
| 4989 | 2.004410 | 0.0077 | 0.1142 | 0.0934 | 0.9404 | 0.9995 | 0.7655 | 0.1322 |
| 4990 | 2.004008 | 0.0431 | 0.7536 | 0.0794 | 0.9400 | 0.9995 | 0.7655 | 0.1322 |
| 4991 | 2.003606 | 0.0613 | 0.8370 | 0.1019 | 0.9396 | 0.9995 | 0.7654 | 0.1322 |
| 4992 | 2.003205 | 0.2874 | 0.7884 | 0.5075 | 0.9391 | 0.9995 | 0.7654 | 0.1322 |
| 4993 | 2.002804 | 0.0174 | 0.2080 | 0.1164 | 0.9386 | 0.9995 | 0.7654 | 0.1323 |
| 4994 | 2.002403 | 0.0336 | 0.4279 | 0.1095 | 0.9382 | 0.9995 | 0.7653 | 0.1323 |
| 4995 | 2.002002 | 0.0774 | 0.8579 | 0.1257 | 0.9377 | 0.9995 | 0.7653 | 0.1323 |
| 4996 | 2.001601 | 0.0985 | 0.9099 | 0.1510 | 0.9372 | 0.9995 | 0.7653 | 0.1323 |
| 4997 | 2.001201 | 0.0589 | 0.4566 | 0.1801 | 0.9368 | 0.9995 | 0.7652 | 0.1323 |
| 4998 | 2.000800 | 0.1369 | 0.8845 | 0.2161 | 0.9363 | 0.9995 | 0.7652 | 0.1323 |
| 4999 | 2.000400 | 0.1807 | 0.9735 | 0.2594 | 0.9358 | 0.9995 | 0.7652 | 0.1323 |
| 5000 | 2.000000 | 0.2013 | 0.8944 | 0.3146 | 0.9354 | 0.9995 | 0.7651 | 0.1324 |
| 5001 | 1.999600 | 0.2451 | 0.9440 | 0.3633 | 0.9348 | 0.9995 | 0.7651 | 0.1324 |
| 5002 | 1.999200 | 0.2841 | 0.9436 | 0.4215 | 0.9342 | 0.9995 | 0.7650 | 0.1324 |
| 5003 | 1.998801 | 0.2731 | 0.7717 | 0.4957 | 0.9337 | 0.9995 | 0.7649 | 0.1324 |
| 5004 | 1.998401 | 0.1677 | 0.4318 | 0.5444 | 0.9331 | 0.9995 | 0.7649 | 0.1325 |
| 5005 | 1.998002 | 0.1092 | 0.2532 | 0.6049 | 0.9325 | 0.9995 | 0.7648 | 0.1325 |
| 5006 | 1.997603 | 0.3260 | 0.6892 | 0.6640 | 0.9319 | 0.9995 | 0.7647 | 0.1325 |
| 5007 | 1.997204 | 0.4332 | 0.8431 | 0.7219 | 0.9314 | 0.9995 | 0.7646 | 0.1326 |
| 5008 | 1.996805 | 0.1775 | 0.3136 | 0.7955 | 0.9308 | 0.9995 | 0.7646 | 0.1326 |
| 5009 | 1.996406 | 0.4239 | 0.8099 | 0.7364 | 0.9302 | 0.9995 | 0.7645 | 0.1326 |
| 5010 | 1.996008 | 0.5262 | 0.8488 | 0.8728 | 0.9296 | 0.9995 | 0.7644 | 0.1326 |
| 5011 | 1.995610 | 0.1977 | 0.3188 | 0.8736 | 0.9291 | 0.9995 | 0.7644 | 0.1327 |
| 5012 | 1.995211 | 0.5309 | 0.7926 | 0.9443 | 0.9286 | 0.9995 | 0.7643 | 0.1327 |
| 5013 | 1.994813 | 0.3957 | 0.5877 | 0.9500 | 0.9280 | 0.9995 | 0.7642 | 0.1327 |
| 5014 | 1.994416 | 0.4823 | 0.7031 | 0.9683 | 0.9275 | 0.9995 | 0.7642 | 0.1328 |
| 5015 | 1.994018 | 0.1230 | 0.1774 | 0.9795 | 0.9270 | 0.9995 | 0.7641 | 0.1328 |
| 5016 | 1.993620 | 0.5686 | 0.8163 | 0.9846 | 0.9265 | 0.9995 | 0.7640 | 0.1328 |
| 5017 | 1.993223 | 0.6026 | 0.8627 | 0.9879 | 0.9259 | 0.9995 | 0.7639 | 0.1328 |
| 5018 | 1.992826 | 0.6616 | 0.9470 | 0.9887 | 0.9254 | 0.9995 | 0.7639 | 0.1329 |
| 5019 | 1.992429 | 0.5672 | 0.8106 | 0.9911 | 0.9249 | 0.9995 | 0.7638 | 0.1329 |
| 5020 | 1.992032 | 0.5169 | 0.7395 | 0.9907 | 0.9243 | 0.9995 | 0.7637 | 0.1329 |
| 5021 | 1.991635 | 0.5885 | 0.8426 | 0.9907 | 0.9236 | 0.9995 | 0.7637 | 0.1330 |
| 5022 | 1.991239 | 0.5899 | 0.8435 | 0.9928 | 0.9229 | 0.9995 | 0.7636 | 0.1330 |
| 5023 | 1.990842 | 0.1923 | 0.2755 | 0.9916 | 0.9223 | 0.9995 | 0.7635 | 0.1330 |
| 5024 | 1.990446 | 0.2674 | 0.3831 | 0.9927 | 0.9216 | 0.9995 | 0.7635 | 0.1330 |
| 5025 | 1.990050 | 0.0632 | 0.0910 | 0.9893 | 0.9209 | 0.9995 | 0.7634 | 0.1331 |
| 5026 | 1.989654 | 0.2348 | 0.3368 | 0.9933 | 0.9202 | 0.9995 | 0.7633 | 0.1331 |
| 5027 | 1.989258 | 0.4882 | 0.7019 | 0.9917 | 0.9195 | 0.9995 | 0.7632 | 0.1331 |
| 5028 | 1.988862 | 0.6205 | 0.8912 | 0.9935 | 0.9188 | 0.9995 | 0.7632 | 0.1332 |
| 5029 | 1.988467 | 0.5677 | 0.8180 | 0.9911 | 0.9181 | 0.9995 | 0.7631 | 0.1332 |
| 5030 | 1.988072 | 0.4235 | 0.6120 | 0.9890 | 0.9174 | 0.9995 | 0.7630 | 0.1332 |



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|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 5031 | 1.987676 | 0.3766 | 0.5437 | 0.9909 | 0.9166 | 0.9995 | 0.7630 | 0.1332 |
| 5032 | 1.987281 | 0.0619 | 0.0893 | 0.9937 | 0.9157 | 0.9995 | 0.7629 | 0.1333 |
| 5033 | 1.986887 | 0.0581 | 0.0842 | 0.9897 | 0.9149 | 0.9995 | 0.7628 | 0.1333 |
| 5034 | 1.986492 | 0.3902 | 0.5645 | 0.9919 | 0.9140 | 0.9995 | 0.7628 | 0.1333 |
| 5035 | 1.986097 | 0.5968 | 0.8646 | 0.9916 | 0.9132 | 0.9995 | 0.7627 | 0.1334 |
| 5036 | 1.985703 | 0.5585 | 0.8096 | 0.9920 | 0.9123 | 0.9995 | 0.7626 | 0.1334 |
| 5037 | 1.985309 | 0.1763 | 0.2566 | 0.9893 | 0.9115 | 0.9995 | 0.7625 | 0.1334 |
| 5038 | 1.984915 | 0.5621 | 0.8160 | 0.9926 | 0.9106 | 0.9995 | 0.7625 | 0.1334 |
| 5039 | 1.984521 | 0.5302 | 0.7683 | 0.9955 | 0.9098 | 0.9995 | 0.7624 | 0.1335 |
| 5040 | 1.984127 | 0.5826 | 0.8526 | 0.9865 | 0.9090 | 0.9995 | 0.7623 | 0.1335 |
| 5041 | 1.983733 | 0.6407 | 0.9290 | 0.9971 | 0.9078 | 0.9995 | 0.7623 | 0.1335 |
| 5042 | 1.983340 | 0.5815 | 0.8549 | 0.9849 | 0.9066 | 0.9995 | 0.7622 | 0.1336 |
| 5043 | 1.982947 | 0.1675 | 0.2445 | 0.9931 | 0.9055 | 0.9995 | 0.7621 | 0.1336 |
| 5044 | 1.982554 | 0.4579 | 0.6754 | 0.9842 | 0.9043 | 0.9995 | 0.7621 | 0.1336 |
| 5045 | 1.982161 | 0.5584 | 0.8194 | 0.9907 | 0.9032 | 0.9995 | 0.7620 | 0.1336 |
| 5046 | 1.981768 | 0.5201 | 0.7748 | 0.9771 | 0.9020 | 0.9995 | 0.7619 | 0.1337 |
| 5047 | 1.981375 | 0.4929 | 0.7256 | 0.9902 | 0.9009 | 0.9995 | 0.7618 | 0.1337 |
| 5048 | 1.980983 | 0.4352 | 0.6582 | 0.9653 | 0.8997 | 0.9995 | 0.7618 | 0.1337 |
| 5049 | 1.980590 | 0.0500 | 0.0739 | 0.9882 | 0.8986 | 0.9995 | 0.7617 | 0.1337 |
| 5050 | 1.980198 | 0.1035 | 0.1592 | 0.9514 | 0.8974 | 0.9995 | 0.7616 | 0.1338 |
| 5051 | 1.979806 | 0.0076 | 0.0114 | 0.9873 | 0.8959 | 0.9995 | 0.7616 | 0.1338 |
| 5052 | 1.979414 | 0.2840 | 0.4469 | 0.9335 | 0.8944 | 0.9995 | 0.7615 | 0.1338 |
| 5053 | 1.979022 | 0.5230 | 0.7806 | 0.9860 | 0.8929 | 0.9995 | 0.7614 | 0.1339 |
| 5054 | 1.978631 | 0.3065 | 0.4977 | 0.9078 | 0.8914 | 0.9995 | 0.7614 | 0.1339 |
| 5055 | 1.978239 | 0.6017 | 0.8996 | 0.9878 | 0.8899 | 0.9995 | 0.7613 | 0.1339 |
| 5056 | 1.977848 | 0.3786 | 0.6273 | 0.8930 | 0.8884 | 0.9995 | 0.7612 | 0.1339 |
| 5057 | 1.977457 | 0.3100 | 0.4659 | 0.9862 | 0.8869 | 0.9995 | 0.7612 | 0.1340 |
| 5058 | 1.977066 | 0.5263 | 0.9030 | 0.8652 | 0.8854 | 0.9995 | 0.7611 | 0.1340 |
| 5059 | 1.976675 | 0.5647 | 0.8560 | 0.9813 | 0.8840 | 0.9995 | 0.7610 | 0.1340 |
| 5060 | 1.976285 | 0.2411 | 0.4306 | 0.8343 | 0.8825 | 0.9995 | 0.7610 | 0.1341 |
| 5061 | 1.975894 | 0.1758 | 0.2684 | 0.9787 | 0.8800 | 0.9995 | 0.7609 | 0.1341 |
| 5062 | 1.975504 | 0.2758 | 0.5176 | 0.7986 | 0.8774 | 0.9995 | 0.7608 | 0.1341 |
| 5063 | 1.975114 | 0.4331 | 0.6693 | 0.9727 | 0.8749 | 0.9995 | 0.7607 | 0.1341 |
| 5064 | 1.974724 | 0.2809 | 0.5570 | 0.7604 | 0.8724 | 0.9995 | 0.7607 | 0.1342 |
| 5065 | 1.974334 | 0.0289 | 0.0453 | 0.9658 | 0.8699 | 0.9995 | 0.7606 | 0.1342 |
| 5066 | 1.973944 | 0.1277 | 0.2700 | 0.7175 | 0.8674 | 0.9995 | 0.7605 | 0.1342 |
| 5067 | 1.973554 | 0.3320 | 0.5258 | 0.9606 | 0.8650 | 0.9995 | 0.7605 | 0.1343 |
| 5068 | 1.973165 | 0.2836 | 0.6403 | 0.6757 | 0.8625 | 0.9995 | 0.7604 | 0.1343 |
| 5069 | 1.972776 | 0.3519 | 0.5686 | 0.9470 | 0.8600 | 0.9995 | 0.7603 | 0.1343 |
| 5070 | 1.972387 | 0.0598 | 0.1446 | 0.6352 | 0.8575 | 0.9995 | 0.7603 | 0.1343 |
| 5071 | 1.971998 | 0.0977 | 0.1608 | 0.9357 | 0.8543 | 0.9995 | 0.7602 | 0.1344 |
| 5072 | 1.971609 | 0.0128 | 0.0336 | 0.5922 | 0.8511 | 0.9995 | 0.7601 | 0.1344 |
| 5073 | 1.971220 | 0.0812 | 0.1368 | 0.9217 | 0.8478 | 0.9995 | 0.7601 | 0.1344 |
| 5074 | 1.970832 | 0.2303 | 0.6490 | 0.5532 | 0.8446 | 0.9995 | 0.7600 | 0.1344 |
| 5075 | 1.970443 | 0.4742 | 0.8132 | 0.9125 | 0.8414 | 0.9995 | 0.7599 | 0.1345 |
| 5076 | 1.970055 | 0.2823 | 0.8593 | 0.5161 | 0.8382 | 0.9995 | 0.7599 | 0.1345 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 5077 | 1.969667 | 0.4756 | 0.8449 | 0.8878 | 0.8350 | 0.9995 | 0.7598 | 0.1345 |
| 5078 | 1.969279 | 0.1519 | 0.5225 | 0.4604 | 0.8318 | 0.9995 | 0.7597 | 0.1346 |
| 5079 | 1.968892 | 0.2244 | 0.8160 | 0.4371 | 0.8287 | 0.9995 | 0.7596 | 0.1346 |
| 5080 | 1.968504 | 0.2469 | 0.4581 | 0.8599 | 0.8255 | 0.9995 | 0.7596 | 0.1346 |
| 5081 | 1.968117 | 0.0122 | 0.0452 | 0.4321 | 0.8215 | 0.9995 | 0.7595 | 0.1346 |
| 5082 | 1.967729 | 0.2443 | 0.4649 | 0.8467 | 0.8174 | 0.9995 | 0.7594 | 0.1347 |
| 5083 | 1.967342 | 0.1504 | 0.5891 | 0.4135 | 0.8134 | 0.9995 | 0.7594 | 0.1347 |
| 5084 | 1.966955 | 0.3677 | 0.7187 | 0.8329 | 0.8094 | 0.9995 | 0.7593 | 0.1347 |
| 5085 | 1.966568 | 0.1898 | 0.7785 | 0.3990 | 0.8053 | 0.9995 | 0.7592 | 0.1348 |
| 5086 | 1.966182 | 0.0569 | 0.1151 | 0.8134 | 0.8014 | 0.9995 | 0.7592 | 0.1348 |
| 5087 | 1.965795 | 0.0844 | 0.3807 | 0.3666 | 0.7974 | 0.9995 | 0.7591 | 0.1348 |
| 5088 | 1.965409 | 0.0562 | 0.2592 | 0.3602 | 0.7935 | 0.9995 | 0.7590 | 0.1348 |
| 5089 | 1.965023 | 0.2805 | 0.5603 | 0.8358 | 0.7896 | 0.9995 | 0.7590 | 0.1349 |
| 5090 | 1.964637 | 0.0639 | 0.2757 | 0.3891 | 0.7856 | 0.9995 | 0.7589 | 0.1349 |
| 5091 | 1.964251 | 0.0519 | 0.1043 | 0.8396 | 0.7808 | 0.9995 | 0.7588 | 0.1349 |
| 5092 | 1.963865 | 0.0171 | 0.0757 | 0.3845 | 0.7760 | 0.9995 | 0.7588 | 0.1349 |
| 5093 | 1.963479 | 0.0018 | 0.0073 | 0.4204 | 0.7712 | 0.9995 | 0.7587 | 0.1350 |
| 5094 | 1.963094 | 0.0643 | 0.1364 | 0.8116 | 0.7664 | 0.9995 | 0.7586 | 0.1350 |
| 5095 | 1.962709 | 0.0020 | 0.0072 | 0.4942 | 0.7616 | 0.9995 | 0.7586 | 0.1350 |
| 5096 | 1.962323 | 0.1453 | 0.3071 | 0.8242 | 0.7570 | 0.9995 | 0.7585 | 0.1351 |
| 5097 | 1.961938 | 0.0125 | 0.0401 | 0.5447 | 0.7523 | 0.9995 | 0.7584 | 0.1351 |
| 5098 | 1.961554 | 0.0792 | 0.2149 | 0.6502 | 0.7477 | 0.9995 | 0.7584 | 0.1351 |
| 5099 | 1.961169 | 0.0037 | 0.0073 | 0.8972 | 0.7430 | 0.9995 | 0.7583 | 0.1351 |
| 5100 | 1.960784 | 0.0546 | 0.1287 | 0.7579 | 0.7384 | 0.9995 | 0.7582 | 0.1352 |
| 5101 | 1.960400 | 0.2519 | 0.5166 | 0.8797 | 0.7315 | 0.9995 | 0.7582 | 0.1352 |
| 5102 | 1.960016 | 0.0780 | 0.2495 | 0.5693 | 0.7247 | 0.9995 | 0.7581 | 0.1352 |
| 5103 | 1.959632 | 0.0037 | 0.0141 | 0.4874 | 0.7179 | 0.9995 | 0.7580 | 0.1352 |
| 5104 | 1.959248 | 0.0040 | 0.0092 | 0.8009 | 0.7110 | 0.9995 | 0.7580 | 0.1353 |
| 5105 | 1.958864 | 0.0148 | 0.0706 | 0.3917 | 0.7042 | 0.9995 | 0.7579 | 0.1353 |
| 5106 | 1.958480 | 0.0165 | 0.0790 | 0.3960 | 0.6976 | 0.9995 | 0.7578 | 0.1353 |
| 5107 | 1.958097 | 0.0192 | 0.0532 | 0.6913 | 0.6911 | 0.9995 | 0.7578 | 0.1354 |
| 5108 | 1.957713 | 0.0067 | 0.0373 | 0.3473 | 0.6846 | 0.9995 | 0.7577 | 0.1354 |
| 5109 | 1.957330 | 0.0034 | 0.0198 | 0.3356 | 0.6780 | 0.9995 | 0.7576 | 0.1354 |
| 5110 | 1.956947 | 0.0135 | 0.0362 | 0.7349 | 0.6715 | 0.9995 | 0.7575 | 0.1354 |
| 5111 | 1.956564 | 0.0020 | 0.0124 | 0.3273 | 0.6626 | 0.9995 | 0.7575 | 0.1355 |
| 5112 | 1.956182 | 0.0209 | 0.1368 | 0.3091 | 0.6537 | 0.9995 | 0.7574 | 0.1355 |
| 5113 | 1.955799 | 0.0113 | 0.0723 | 0.3204 | 0.6448 | 0.9995 | 0.7573 | 0.1355 |
| 5114 | 1.955417 | 0.0064 | 0.0177 | 0.7509 | 0.6358 | 0.9995 | 0.7573 | 0.1355 |
| 5115 | 1.955034 | 0.0324 | 0.1917 | 0.3562 | 0.6269 | 0.9995 | 0.7572 | 0.1356 |
| 5116 | 1.954652 | 0.0289 | 0.1732 | 0.3566 | 0.6186 | 0.9995 | 0.7571 | 0.1356 |
| 5117 | 1.954270 | 0.0015 | 0.0085 | 0.3961 | 0.6102 | 0.9995 | 0.7571 | 0.1356 |
| 5118 | 1.953888 | 0.0159 | 0.0458 | 0.7621 | 0.6019 | 0.9995 | 0.7570 | 0.1357 |
| 5119 | 1.953507 | 0.0002 | 0.0009 | 0.4373 | 0.5935 | 0.9995 | 0.7569 | 0.1357 |
| 5120 | 1.953125 | 0.0021 | 0.0107 | 0.4542 | 0.5852 | 0.9995 | 0.7569 | 0.1357 |
| 5121 | 1.952744 | 0.0124 | 0.0579 | 0.4952 | 0.5736 | 0.9995 | 0.7568 | 0.1357 |
| 5122 | 1.952362 | 0.0183 | 0.0784 | 0.5493 | 0.5621 | 0.9995 | 0.7567 | 0.1358 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 5123 | 1.951981 | 0.1464 | 0.4072 | 0.8637 | 0.5505 | 0.9995 | 0.7567 | 0.1358 |
| 5124 | 1.951600 | 0.1305 | 0.5245 | 0.6103 | 0.5390 | 0.9995 | 0.7566 | 0.1358 |
| 5125 | 1.951220 | 0.1189 | 0.4730 | 0.6301 | 0.5274 | 0.9995 | 0.7565 | 0.1358 |
| 5126 | 1.950839 | 0.0088 | 0.0349 | 0.6460 | 0.5170 | 0.9995 | 0.7565 | 0.1359 |
| 5127 | 1.950458 | 0.0149 | 0.0559 | 0.6962 | 0.5065 | 0.9995 | 0.7564 | 0.1359 |
| 5128 | 1.950078 | 0.0085 | 0.0308 | 0.7326 | 0.4961 | 0.9995 | 0.7563 | 0.1359 |
| 5129 | 1.949698 | 0.0513 | 0.1959 | 0.7137 | 0.4857 | 0.9995 | 0.7563 | 0.1360 |
| 5130 | 1.949318 | 0.0013 | 0.0048 | 0.7797 | 0.4752 | 0.9995 | 0.7562 | 0.1360 |
| 5131 | 1.948938 | 0.0094 | 0.0370 | 0.7265 | 0.4648 | 0.9995 | 0.7561 | 0.1360 |
| 5132 | 1.948558 | 0.0016 | 0.0057 | 0.8087 | 0.4543 | 0.9995 | 0.7561 | 0.1360 |
| 5133 | 1.948178 | 0.0004 | 0.0018 | 0.7547 | 0.4438 | 0.9995 | 0.7560 | 0.1361 |
| 5134 | 1.947799 | 0.0063 | 0.0227 | 0.8460 | 0.4333 | 0.9995 | 0.7559 | 0.1361 |
| 5135 | 1.947420 | 0.0014 | 0.0050 | 0.8604 | 0.4229 | 0.9995 | 0.7559 | 0.1361 |
| 5136 | 1.947040 | 0.0011 | 0.0044 | 0.7877 | 0.4135 | 0.9995 | 0.7558 | 0.1361 |
| 5137 | 1.946661 | 0.0253 | 0.1038 | 0.7994 | 0.4042 | 0.9995 | 0.7557 | 0.1362 |
| 5138 | 1.946283 | 0.0101 | 0.0382 | 0.8891 | 0.3949 | 0.9995 | 0.7557 | 0.1362 |
| 5139 | 1.945904 | 0.0040 | 0.0155 | 0.8908 | 0.3855 | 0.9995 | 0.7556 | 0.1362 |
| 5140 | 1.945525 | 0.0067 | 0.0281 | 0.8328 | 0.3762 | 0.9995 | 0.7555 | 0.1363 |
| 5141 | 1.945147 | 0.0011 | 0.0048 | 0.8455 | 0.3660 | 0.9995 | 0.7555 | 0.1363 |
| 5142 | 1.944769 | 0.0000 | 0.0000 | 0.8632 | 0.3558 | 0.9995 | 0.7554 | 0.1363 |
| 5143 | 1.944390 | 0.0000 | 0.0002 | 0.9866 | 0.3456 | 0.9995 | 0.7553 | 0.1363 |
| 5144 | 1.944012 | 0.0020 | 0.0089 | 0.8815 | 0.3354 | 0.9995 | 0.7553 | 0.1364 |
| 5145 | 1.943635 | 0.0000 | 0.0001 | 0.8931 | 0.3252 | 0.9995 | 0.7552 | 0.1364 |
| 5146 | 1.943257 | 0.0077 | 0.0356 | 0.9108 | 0.3163 | 0.9994 | 0.7551 | 0.1364 |
| 5147 | 1.942879 | 0.0158 | 0.0736 | 0.9256 | 0.3075 | 0.9994 | 0.7551 | 0.1364 |
| 5148 | 1.942502 | 0.0336 | 0.1595 | 0.9359 | 0.2987 | 0.9994 | 0.7550 | 0.1365 |
| 5149 | 1.942125 | 0.0005 | 0.0025 | 0.9720 | 0.2898 | 0.9994 | 0.7550 | 0.1365 |
| 5150 | 1.941748 | 0.0001 | 0.0007 | 0.9522 | 0.2810 | 0.9994 | 0.7549 | 0.1365 |
| 5151 | 1.941371 | 0.0000 | 0.0001 | 0.9642 | 0.2705 | 0.9994 | 0.7548 | 0.1366 |
| 5152 | 1.940994 | 0.0001 | 0.0003 | 0.9682 | 0.2599 | 0.9994 | 0.7548 | 0.1366 |
| 5153 | 1.940617 | 0.0002 | 0.0011 | 0.9782 | 0.2494 | 0.9994 | 0.7547 | 0.1366 |
| 5154 | 1.940241 | 0.0000 | 0.0001 | 0.9793 | 0.2389 | 0.9994 | 0.7546 | 0.1366 |
| 5155 | 1.939864 | 0.0000 | 0.0000 | 0.9867 | 0.2283 | 0.9994 | 0.7546 | 0.1367 |
| 5156 | 1.939488 | 0.0000 | 0.0000 | 0.9864 | 0.2197 | 0.9994 | 0.7545 | 0.1367 |
| 5157 | 1.939112 | 0.0000 | 0.0003 | 0.9918 | 0.2112 | 0.9994 | 0.7544 | 0.1367 |
| 5158 | 1.938736 | 0.0000 | 0.0000 | 0.9901 | 0.2026 | 0.9994 | 0.7544 | 0.1367 |
| 5159 | 1.938360 | 0.0000 | 0.0000 | 0.9927 | 0.1940 | 0.9994 | 0.7543 | 0.1368 |
| 5160 | 1.937984 | 0.0001 | 0.0008 | 0.9960 | 0.1854 | 0.9994 | 0.7542 | 0.1368 |
| 5161 | 1.937609 | 0.0000 | 0.0002 | 0.9948 | 0.1773 | 0.9994 | 0.7542 | 0.1368 |
| 5162 | 1.937234 | 0.0002 | 0.0017 | 0.9957 | 0.1692 | 0.9994 | 0.7541 | 0.1368 |
| 5163 | 1.936858 | 0.0000 | 0.0000 | 0.9979 | 0.1610 | 0.9994 | 0.7540 | 0.1369 |
| 5164 | 1.936483 | 0.0000 | 0.0000 | 0.9971 | 0.1529 | 0.9994 | 0.7540 | 0.1369 |
| 5165 | 1.936108 | 0.0000 | 0.0000 | 0.9975 | 0.1448 | 0.9994 | 0.7539 | 0.1369 |
| 5166 | 1.935734 | 0.0001 | 0.0013 | 0.9980 | 0.1384 | 0.9994 | 0.7538 | 0.1370 |
| 5167 | 1.935359 | 0.0053 | 0.0535 | 0.9985 | 0.1320 | 0.9994 | 0.7538 | 0.1370 |
| 5168 | 1.934985 | 0.0053 | 0.0559 | 0.9988 | 0.1257 | 0.9994 | 0.7537 | 0.1370 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 5169 | 1.934610 | 0.0000 | 0.0004 | 0.9990 | 0.1193 | 0.9994 | 0.7536 | 0.1370 |
| 5170 | 1.934236 | 0.0000 | 0.0000 | 0.9993 | 0.1129 | 0.9994 | 0.7536 | 0.1371 |
| 5171 | 1.933862 | 0.0001 | 0.0009 | 0.9995 | 0.1059 | 0.9994 | 0.7535 | 0.1371 |
| 5172 | 1.933488 | 0.0000 | 0.0000 | 0.9996 | 0.0988 | 0.9994 | 0.7534 | 0.1371 |
| 5173 | 1.933114 | 0.0000 | 0.0001 | 0.9997 | 0.0917 | 0.9994 | 0.7534 | 0.1371 |
| 5174 | 1.932741 | 0.0001 | 0.0008 | 0.9997 | 0.0846 | 0.9994 | 0.7533 | 0.1372 |
| 5175 | 1.932367 | 0.0001 | 0.0022 | 0.9997 | 0.0775 | 0.9994 | 0.7532 | 0.1372 |
| 5176 | 1.931994 | 0.0000 | 0.0002 | 0.9999 | 0.0726 | 0.9994 | 0.7532 | 0.1372 |
| 5177 | 1.931621 | 0.0000 | 0.0000 | 0.9999 | 0.0677 | 0.9994 | 0.7531 | 0.1372 |
| 5178 | 1.931248 | 0.0000 | 0.0000 | 0.9999 | 0.0629 | 0.9994 | 0.7531 | 0.1373 |
| 5179 | 1.930875 | 0.0000 | 0.0000 | 0.9999 | 0.0580 | 0.9994 | 0.7530 | 0.1373 |
| 5180 | 1.930502 | 0.0000 | 0.0000 | 0.9999 | 0.0531 | 0.9994 | 0.7529 | 0.1373 |
| 5181 | 1.930129 | 0.0000 | 0.0000 | 0.9999 | 0.0505 | 0.9994 | 0.7529 | 0.1374 |
| 5182 | 1.929757 | 0.0000 | 0.0000 | 1.0000 | 0.0480 | 0.9994 | 0.7528 | 0.1374 |
| 5183 | 1.929385 | 0.0000 | 0.0001 | 0.9999 | 0.0454 | 0.9994 | 0.7527 | 0.1374 |
| 5184 | 1.929012 | 0.0000 | 0.0000 | 1.0000 | 0.0428 | 0.9994 | 0.7527 | 0.1374 |
| 5185 | 1.928640 | 0.0000 | 0.0000 | 0.9999 | 0.0402 | 0.9994 | 0.7526 | 0.1375 |
| 5186 | 1.928268 | 0.0000 | 0.0000 | 1.0000 | 0.0383 | 0.9994 | 0.7525 | 0.1375 |
| 5187 | 1.927897 | 0.0000 | 0.0000 | 0.9999 | 0.0363 | 0.9994 | 0.7525 | 0.1375 |
| 5188 | 1.927525 | 0.0000 | 0.0000 | 0.9999 | 0.0344 | 0.9994 | 0.7524 | 0.1375 |
| 5189 | 1.927154 | 0.0000 | 0.0000 | 1.0000 | 0.0324 | 0.9994 | 0.7523 | 0.1376 |
| 5190 | 1.926782 | 0.0000 | 0.0000 | 0.9998 | 0.0305 | 0.9994 | 0.7523 | 0.1376 |
| 5191 | 1.926411 | 0.0000 | 0.0000 | 1.0000 | 0.0286 | 0.9994 | 0.7522 | 0.1376 |
| 5192 | 1.926040 | 0.0000 | 0.0001 | 0.9998 | 0.0267 | 0.9994 | 0.7521 | 0.1376 |
| 5193 | 1.925669 | 0.0002 | 0.0105 | 1.0000 | 0.0248 | 0.9994 | 0.7521 | 0.1377 |
| 5194 | 1.925298 | 0.0001 | 0.0082 | 0.9998 | 0.0229 | 0.9994 | 0.7520 | 0.1377 |
| 5195 | 1.924928 | 0.0000 | 0.0000 | 1.0000 | 0.0211 | 0.9994 | 0.7519 | 0.1377 |
| 5196 | 1.924557 | 0.0000 | 0.0000 | 0.9997 | 0.0198 | 0.9994 | 0.7519 | 0.1377 |
| 5197 | 1.924187 | 0.0000 | 0.0000 | 1.0000 | 0.0185 | 0.9994 | 0.7518 | 0.1378 |
| 5198 | 1.923817 | 0.0000 | 0.0000 | 0.9997 | 0.0172 | 0.9994 | 0.7518 | 0.1378 |
| 5199 | 1.923447 | 0.0000 | 0.0000 | 0.9996 | 0.0159 | 0.9994 | 0.7517 | 0.1378 |
| 5200 | 1.923077 | 0.0000 | 0.0005 | 1.0000 | 0.0146 | 0.9994 | 0.7516 | 0.1379 |
| 5201 | 1.922707 | 0.0000 | 0.0007 | 0.9996 | 0.0138 | 0.9994 | 0.7516 | 0.1379 |
| 5202 | 1.922338 | 0.0000 | 0.0003 | 1.0000 | 0.0130 | 0.9994 | 0.7515 | 0.1379 |
| 5203 | 1.921968 | 0.0000 | 0.0000 | 0.9996 | 0.0123 | 0.9994 | 0.7514 | 0.1379 |
| 5204 | 1.921599 | 0.0000 | 0.0000 | 1.0000 | 0.0115 | 0.9994 | 0.7514 | 0.1380 |
| 5205 | 1.921230 | 0.0000 | 0.0000 | 0.9996 | 0.0108 | 0.9994 | 0.7513 | 0.1380 |
| 5206 | 1.920861 | 0.0000 | 0.0000 | 0.9996 | 0.0102 | 0.9994 | 0.7512 | 0.1380 |
| 5207 | 1.920492 | 0.0000 | 0.0000 | 1.0000 | 0.0096 | 0.9994 | 0.7512 | 0.1380 |
| 5208 | 1.920123 | 0.0000 | 0.0000 | 0.9996 | 0.0091 | 0.9994 | 0.7511 | 0.1381 |
| 5209 | 1.919754 | 0.0000 | 0.0000 | 1.0000 | 0.0085 | 0.9994 | 0.7510 | 0.1381 |
| 5210 | 1.919386 | 0.0000 | 0.0000 | 0.9996 | 0.0079 | 0.9994 | 0.7510 | 0.1381 |
| 5211 | 1.919017 | 0.0000 | 0.0000 | 0.9997 | 0.0074 | 0.9994 | 0.7509 | 0.1381 |
| 5212 | 1.918649 | 0.0000 | 0.0003 | 1.0000 | 0.0069 | 0.9994 | 0.7509 | 0.1382 |
| 5213 | 1.918281 | 0.0000 | 0.0024 | 0.9998 | 0.0063 | 0.9994 | 0.7508 | 0.1382 |
| 5214 | 1.917913 | 0.0000 | 0.0048 | 1.0000 | 0.0058 | 0.9994 | 0.7507 | 0.1382 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 5215 | 1.917546 | 0.0000 | 0.0003 | 0.9998 | 0.0052 | 0.9994 | 0.7507 | 0.1382 |
| 5216 | 1.917178 | 0.0000 | 0.0000 | 0.9999 | 0.0049 | 0.9994 | 0.7506 | 0.1383 |
| 5217 | 1.916810 | 0.0000 | 0.0000 | 1.0000 | 0.0045 | 0.9994 | 0.7505 | 0.1383 |
| 5218 | 1.916443 | 0.0000 | 0.0000 | 1.0000 | 0.0042 | 0.9994 | 0.7505 | 0.1383 |
| 5219 | 1.916076 | 0.0000 | 0.0000 | 1.0000 | 0.0038 | 0.9994 | 0.7504 | 0.1384 |
| 5220 | 1.915709 | 0.0000 | 0.0000 | 0.9999 | 0.0034 | 0.9994 | 0.7503 | 0.1384 |
| 5221 | 1.915342 | 0.0000 | 0.0000 | 1.0000 | 0.0032 | 0.9994 | 0.7503 | 0.1384 |
| 5222 | 1.914975 | 0.0000 | 0.0000 | 0.9998 | 0.0030 | 0.9994 | 0.7502 | 0.1384 |
| 5223 | 1.914608 | 0.0000 | 0.0000 | 0.9997 | 0.0027 | 0.9994 | 0.7502 | 0.1385 |
| 5224 | 1.914242 | 0.0000 | 0.0000 | 0.9996 | 0.0025 | 0.9994 | 0.7501 | 0.1385 |
| 5225 | 1.913876 | 0.0000 | 0.0000 | 1.0000 | 0.0023 | 0.9994 | 0.7500 | 0.1385 |
| 5226 | 1.913509 | 0.0000 | 0.0000 | 0.9996 | 0.0021 | 0.9994 | 0.7500 | 0.1385 |
| 5227 | 1.913143 | 0.0000 | 0.0000 | 0.9996 | 0.0020 | 0.9994 | 0.7499 | 0.1386 |
| 5228 | 1.912777 | 0.0000 | 0.0000 | 1.0000 | 0.0018 | 0.9994 | 0.7498 | 0.1386 |
| 5229 | 1.912412 | 0.0000 | 0.0000 | 0.9995 | 0.0017 | 0.9994 | 0.7498 | 0.1386 |
| 5230 | 1.912046 | 0.0000 | 0.0000 | 0.9996 | 0.0015 | 0.9994 | 0.7497 | 0.1386 |
| 5231 | 1.911680 | 0.0000 | 0.0000 | 0.9999 | 0.0015 | 0.9994 | 0.7496 | 0.1387 |
| 5232 | 1.911315 | 0.0000 | 0.0000 | 0.9996 | 0.0014 | 0.9994 | 0.7496 | 0.1387 |
| 5233 | 1.910950 | 0.0000 | 0.0000 | 0.9995 | 0.0014 | 0.9994 | 0.7495 | 0.1387 |
| 5234 | 1.910585 | 0.0000 | 0.0000 | 0.9996 | 0.0013 | 0.9994 | 0.7495 | 0.1387 |
| 5235 | 1.910220 | 0.0000 | 0.0000 | 0.9999 | 0.0013 | 0.9994 | 0.7494 | 0.1388 |
| 5236 | 1.909855 | 0.0000 | 0.0000 | 0.9996 | 0.0012 | 0.9994 | 0.7493 | 0.1388 |
| 5237 | 1.909490 | 0.0000 | 0.0000 | 0.9996 | 0.0012 | 0.9994 | 0.7493 | 0.1388 |
| 5238 | 1.909126 | 0.0000 | 0.0001 | 0.9997 | 0.0011 | 0.9994 | 0.7492 | 0.1388 |
| 5239 | 1.908761 | 0.0000 | 0.0000 | 0.9997 | 0.0011 | 0.9994 | 0.7491 | 0.1389 |
| 5240 | 1.908397 | 0.0000 | 0.0002 | 0.9999 | 0.0011 | 0.9994 | 0.7491 | 0.1389 |
| 5241 | 1.908033 | 0.0000 | 0.0000 | 0.9997 | 0.0011 | 0.9994 | 0.7490 | 0.1389 |
| 5242 | 1.907669 | 0.0000 | 0.0000 | 0.9996 | 0.0011 | 0.9994 | 0.7489 | 0.1389 |
| 5243 | 1.907305 | 0.0000 | 0.0000 | 0.9997 | 0.0011 | 0.9994 | 0.7489 | 0.1390 |
| 5244 | 1.906941 | 0.0000 | 0.0000 | 0.9995 | 0.0010 | 0.9994 | 0.7488 | 0.1390 |
| 5245 | 1.906578 | 0.0000 | 0.0000 | 0.9998 | 0.0010 | 0.9994 | 0.7488 | 0.1390 |
| 5246 | 1.906214 | 0.0000 | 0.0000 | 0.9994 | 0.0010 | 0.9994 | 0.7487 | 0.1391 |
| 5247 | 1.905851 | 0.0000 | 0.0000 | 0.9994 | 0.0010 | 0.9994 | 0.7486 | 0.1391 |
| 5248 | 1.905488 | 0.0000 | 0.0000 | 0.9997 | 0.0010 | 0.9994 | 0.7486 | 0.1391 |
| 5249 | 1.905125 | 0.0000 | 0.0000 | 1.0000 | 0.0010 | 0.9994 | 0.7485 | 0.1391 |
| 5250 | 1.904762 | 0.0000 | 0.0000 | 1.0000 | 0.0010 | 0.9994 | 0.7484 | 0.1392 |
| 5251 | 1.904399 | 0.0000 | 0.0000 | 1.0000 | 0.0010 | 0.9994 | 0.7484 | 0.1392 |
| 5252 | 1.904037 | 0.0000 | 0.0000 | 0.9999 | 0.0010 | 0.9994 | 0.7483 | 0.1392 |
| 5253 | 1.903674 | 0.0000 | 0.0000 | 1.0000 | 0.0011 | 0.9994 | 0.7483 | 0.1392 |
| 5254 | 1.903312 | 0.0000 | 0.0000 | 0.9999 | 0.0011 | 0.9994 | 0.7482 | 0.1393 |
| 5255 | 1.902950 | 0.0000 | 0.0000 | 0.9999 | 0.0011 | 0.9994 | 0.7481 | 0.1393 |
| 5256 | 1.902588 | 0.0000 | 0.0000 | 0.9999 | 0.0011 | 0.9994 | 0.7481 | 0.1393 |
| 5257 | 1.902226 | 0.0000 | 0.0000 | 0.9998 | 0.0011 | 0.9994 | 0.7480 | 0.1393 |
| 5258 | 1.901864 | 0.0000 | 0.0000 | 1.0000 | 0.0011 | 0.9994 | 0.7479 | 0.1394 |
| 5259 | 1.901502 | 0.0000 | 0.0000 | 0.9998 | 0.0011 | 0.9994 | 0.7479 | 0.1394 |
| 5260 | 1.901141 | 0.0000 | 0.0000 | 0.9998 | 0.0011 | 0.9994 | 0.7478 | 0.1394 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 5261 | 1.900779 | 0.0000 | 0.0000 | 0.9998 | 0.0011 | 0.9994 | 0.7478 | 0.1394 |
| 5262 | 1.900418 | 0.0000 | 0.0000 | 0.9998 | 0.0011 | 0.9994 | 0.7477 | 0.1395 |
| 5263 | 1.900057 | 0.0000 | 0.0000 | 0.9997 | 0.0011 | 0.9994 | 0.7476 | 0.1395 |
| 5264 | 1.899696 | 0.0000 | 0.0000 | 0.9998 | 0.0011 | 0.9994 | 0.7476 | 0.1395 |
| 5265 | 1.899335 | 0.0000 | 0.0000 | 0.9998 | 0.0011 | 0.9994 | 0.7475 | 0.1395 |
| 5266 | 1.898975 | 0.0000 | 0.0000 | 0.9997 | 0.0011 | 0.9994 | 0.7474 | 0.1396 |
| 5267 | 1.898614 | 0.0000 | 0.0000 | 0.9998 | 0.0011 | 0.9994 | 0.7474 | 0.1396 |
| 5268 | 1.898254 | 0.0000 | 0.0000 | 0.9997 | 0.0011 | 0.9994 | 0.7473 | 0.1396 |
| 5269 | 1.897893 | 0.0000 | 0.0000 | 0.9998 | 0.0011 | 0.9994 | 0.7473 | 0.1396 |
| 5270 | 1.897533 | 0.0000 | 0.0000 | 0.9999 | 0.0011 | 0.9994 | 0.7472 | 0.1397 |
| 5271 | 1.897173 | 0.0000 | 0.0000 | 0.9997 | 0.0012 | 0.9994 | 0.7471 | 0.1397 |
| 5272 | 1.896813 | 0.0000 | 0.0004 | 1.0000 | 0.0012 | 0.9994 | 0.7471 | 0.1397 |
| 5273 | 1.896454 | 0.0000 | 0.0001 | 0.9997 | 0.0012 | 0.9994 | 0.7470 | 0.1397 |
| 5274 | 1.896094 | 0.0000 | 0.0005 | 1.0000 | 0.0013 | 0.9994 | 0.7469 | 0.1398 |
| 5275 | 1.895735 | 0.0000 | 0.0025 | 0.9999 | 0.0013 | 0.9994 | 0.7469 | 0.1398 |
| 5276 | 1.895375 | 0.0000 | 0.0033 | 0.9997 | 0.0014 | 0.9994 | 0.7468 | 0.1398 |
| 5277 | 1.895016 | 0.0000 | 0.0002 | 0.9999 | 0.0014 | 0.9994 | 0.7468 | 0.1398 |
| 5278 | 1.894657 | 0.0000 | 0.0001 | 0.9996 | 0.0015 | 0.9994 | 0.7467 | 0.1399 |
| 5279 | 1.894298 | 0.0000 | 0.0000 | 0.9999 | 0.0015 | 0.9994 | 0.7466 | 0.1399 |
| 5280 | 1.893939 | 0.0000 | 0.0001 | 0.9995 | 0.0015 | 0.9994 | 0.7466 | 0.1399 |
| 5281 | 1.893581 | 0.0000 | 0.0000 | 0.9999 | 0.0016 | 0.9994 | 0.7465 | 0.1400 |
| 5282 | 1.893222 | 0.0000 | 0.0000 | 0.9999 | 0.0017 | 0.9994 | 0.7464 | 0.1400 |
| 5283 | 1.892864 | 0.0000 | 0.0000 | 0.9993 | 0.0017 | 0.9994 | 0.7464 | 0.1400 |
| 5284 | 1.892506 | 0.0000 | 0.0000 | 0.9998 | 0.0018 | 0.9994 | 0.7463 | 0.1400 |
| 5285 | 1.892148 | 0.0000 | 0.0000 | 0.9991 | 0.0018 | 0.9994 | 0.7463 | 0.1401 |
| 5286 | 1.891790 | 0.0000 | 0.0000 | 0.9998 | 0.0019 | 0.9994 | 0.7462 | 0.1401 |
| 5287 | 1.891432 | 0.0000 | 0.0000 | 0.9988 | 0.0020 | 0.9994 | 0.7461 | 0.1401 |
| 5288 | 1.891074 | 0.0000 | 0.0000 | 0.9995 | 0.0021 | 0.9994 | 0.7461 | 0.1401 |
| 5289 | 1.890717 | 0.0000 | 0.0000 | 0.9994 | 0.0021 | 0.9994 | 0.7460 | 0.1402 |
| 5290 | 1.890359 | 0.0000 | 0.0002 | 0.9981 | 0.0022 | 0.9994 | 0.7459 | 0.1402 |
| 5291 | 1.890002 | 0.0000 | 0.0000 | 0.9992 | 0.0022 | 0.9994 | 0.7459 | 0.1402 |
| 5292 | 1.889645 | 0.0000 | 0.0000 | 0.9988 | 0.0022 | 0.9994 | 0.7458 | 0.1402 |
| 5293 | 1.889288 | 0.0000 | 0.0000 | 0.9998 | 0.0022 | 0.9994 | 0.7458 | 0.1403 |
| 5294 | 1.888931 | 0.0000 | 0.0003 | 0.9986 | 0.0023 | 0.9994 | 0.7457 | 0.1403 |
| 5295 | 1.888574 | 0.0000 | 0.0049 | 0.9999 | 0.0023 | 0.9994 | 0.7456 | 0.1403 |
| 5296 | 1.888218 | 0.0000 | 0.0132 | 0.9984 | 0.0023 | 0.9994 | 0.7456 | 0.1403 |
| 5297 | 1.887861 | 0.0000 | 0.0072 | 0.9998 | 0.0023 | 0.9994 | 0.7455 | 0.1404 |
| 5298 | 1.887505 | 0.0000 | 0.0001 | 0.9982 | 0.0023 | 0.9994 | 0.7455 | 0.1404 |
| 5299 | 1.887149 | 0.0000 | 0.0000 | 0.9998 | 0.0024 | 0.9994 | 0.7454 | 0.1404 |
| 5300 | 1.886792 | 0.0000 | 0.0003 | 0.9982 | 0.0024 | 0.9994 | 0.7453 | 0.1404 |
| 5301 | 1.886437 | 0.0000 | 0.0000 | 0.9997 | 0.0022 | 0.9994 | 0.7453 | 0.1405 |
| 5302 | 1.886081 | 0.0000 | 0.0000 | 0.9980 | 0.0021 | 0.9994 | 0.7452 | 0.1405 |
| 5303 | 1.885725 | 0.0000 | 0.0000 | 0.9996 | 0.0019 | 0.9994 | 0.7451 | 0.1405 |
| 5304 | 1.885370 | 0.0000 | 0.0000 | 0.9980 | 0.0017 | 0.9994 | 0.7451 | 0.1405 |
| 5305 | 1.885014 | 0.0000 | 0.0000 | 0.9994 | 0.0015 | 0.9994 | 0.7450 | 0.1406 |
| 5306 | 1.884659 | 0.0000 | 0.0000 | 0.9978 | 0.0014 | 0.9994 | 0.7450 | 0.1406 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 5307 | 1.884304 | 0.0000 | 0.0005 | 0.9971 | 0.0013 | 0.9994 | 0.7449 | 0.1406 |
| 5308 | 1.883949 | 0.0000 | 0.0000 | 0.9988 | 0.0012 | 0.9994 | 0.7448 | 0.1406 |
| 5309 | 1.883594 | 0.0000 | 0.0000 | 0.9974 | 0.0011 | 0.9994 | 0.7448 | 0.1407 |
| 5310 | 1.883239 | 0.0000 | 0.0001 | 0.9965 | 0.0010 | 0.9994 | 0.7447 | 0.1407 |
| 5311 | 1.882885 | 0.0000 | 0.0002 | 0.9966 | 0.0009 | 0.9994 | 0.7447 | 0.1407 |
| 5312 | 1.882530 | 0.0000 | 0.0044 | 0.9943 | 0.0009 | 0.9994 | 0.7446 | 0.1407 |
| 5313 | 1.882176 | 0.0000 | 0.0014 | 0.9920 | 0.0008 | 0.9994 | 0.7445 | 0.1408 |
| 5314 | 1.881822 | 0.0000 | 0.0000 | 0.9871 | 0.0007 | 0.9994 | 0.7445 | 0.1408 |
| 5315 | 1.881468 | 0.0000 | 0.0000 | 0.9823 | 0.0007 | 0.9994 | 0.7444 | 0.1408 |
| 5316 | 1.881114 | 0.0000 | 0.0000 | 0.9960 | 0.0006 | 0.9994 | 0.7444 | 0.1408 |
| 5317 | 1.880760 | 0.0000 | 0.0000 | 0.9997 | 0.0006 | 0.9994 | 0.7443 | 0.1409 |
| 5318 | 1.880406 | 0.0000 | 0.0000 | 0.9990 | 0.0005 | 0.9994 | 0.7442 | 0.1409 |
| 5319 | 1.880053 | 0.0000 | 0.0003 | 0.9987 | 0.0005 | 0.9994 | 0.7442 | 0.1409 |
| 5320 | 1.879699 | 0.0000 | 0.0004 | 0.9999 | 0.0004 | 0.9994 | 0.7441 | 0.1409 |
| 5321 | 1.879346 | 0.0000 | 0.0001 | 0.9983 | 0.0004 | 0.9994 | 0.7440 | 0.1410 |
| 5322 | 1.878993 | 0.0000 | 0.0001 | 0.9979 | 0.0004 | 0.9994 | 0.7440 | 0.1410 |
| 5323 | 1.878640 | 0.0000 | 0.0000 | 0.9998 | 0.0004 | 0.9994 | 0.7439 | 0.1410 |
| 5324 | 1.878287 | 0.0000 | 0.0000 | 0.9977 | 0.0004 | 0.9994 | 0.7439 | 0.1410 |
| 5325 | 1.877934 | 0.0000 | 0.0000 | 0.9974 | 0.0003 | 0.9994 | 0.7438 | 0.1411 |
| 5326 | 1.877582 | 0.0000 | 0.0000 | 0.9973 | 0.0003 | 0.9994 | 0.7437 | 0.1411 |
| 5327 | 1.877229 | 0.0000 | 0.0000 | 0.9973 | 0.0003 | 0.9994 | 0.7437 | 0.1411 |
| 5328 | 1.876877 | 0.0000 | 0.0000 | 0.9974 | 0.0003 | 0.9994 | 0.7436 | 0.1411 |
| 5329 | 1.876525 | 0.0000 | 0.0000 | 0.9975 | 0.0003 | 0.9994 | 0.7436 | 0.1412 |
| 5330 | 1.876173 | 0.0000 | 0.0000 | 0.9998 | 0.0003 | 0.9994 | 0.7435 | 0.1412 |
| 5331 | 1.875821 | 0.0000 | 0.0000 | 0.9977 | 0.0003 | 0.9994 | 0.7434 | 0.1412 |
| 5332 | 1.875469 | 0.0000 | 0.0000 | 0.9961 | 0.0003 | 0.9994 | 0.7434 | 0.1412 |
| 5333 | 1.875117 | 0.0000 | 0.0000 | 0.9983 | 0.0002 | 0.9994 | 0.7433 | 0.1413 |
| 5334 | 1.874766 | 0.0000 | 0.0000 | 0.9986 | 0.0002 | 0.9994 | 0.7433 | 0.1413 |
| 5335 | 1.874414 | 0.0000 | 0.0000 | 0.9988 | 0.0002 | 0.9994 | 0.7432 | 0.1413 |
| 5336 | 1.874063 | 0.0000 | 0.0000 | 0.9990 | 0.0002 | 0.9994 | 0.7431 | 0.1413 |
| 5337 | 1.873712 | 0.0000 | 0.0000 | 0.9986 | 0.0002 | 0.9994 | 0.7431 | 0.1414 |
| 5338 | 1.873361 | 0.0000 | 0.0000 | 0.9991 | 0.0002 | 0.9994 | 0.7430 | 0.1414 |
| 5339 | 1.873010 | 0.0000 | 0.0000 | 0.9997 | 0.0002 | 0.9994 | 0.7430 | 0.1414 |
| 5340 | 1.872659 | 0.0000 | 0.0000 | 0.9995 | 0.0002 | 0.9994 | 0.7429 | 0.1414 |
| 5341 | 1.872309 | 0.0000 | 0.0000 | 0.9998 | 0.0002 | 0.9994 | 0.7428 | 0.1415 |
| 5342 | 1.871958 | 0.0000 | 0.0000 | 1.0000 | 0.0002 | 0.9994 | 0.7428 | 0.1415 |
| 5343 | 1.871608 | 0.0000 | 0.0000 | 1.0000 | 0.0002 | 0.9994 | 0.7427 | 0.1415 |
| 5344 | 1.871257 | 0.0000 | 0.0000 | 1.0000 | 0.0002 | 0.9994 | 0.7427 | 0.1415 |
| 5345 | 1.870907 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9994 | 0.7426 | 0.1416 |
| 5346 | 1.870557 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9994 | 0.7425 | 0.1416 |
| 5347 | 1.870208 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9994 | 0.7425 | 0.1416 |
| 5348 | 1.869858 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9994 | 0.7424 | 0.1416 |
| 5349 | 1.869508 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9994 | 0.7424 | 0.1417 |
| 5350 | 1.869159 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9994 | 0.7423 | 0.1417 |
| 5351 | 1.868810 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9994 | 0.7422 | 0.1417 |
| 5352 | 1.868460 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9994 | 0.7422 | 0.1417 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 5353 | 1.868111 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9994 | 0.7421 | 0.1418 |
| 5354 | 1.867762 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9994 | 0.7421 | 0.1418 |
| 5355 | 1.867414 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9994 | 0.7420 | 0.1418 |
| 5356 | 1.867065 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9994 | 0.7419 | 0.1418 |
| 5357 | 1.866716 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9994 | 0.7419 | 0.1419 |
| 5358 | 1.866368 | 0.0000 | 0.0001 | 1.0000 | 0.0001 | 0.9994 | 0.7418 | 0.1419 |
| 5359 | 1.866020 | 0.0000 | 0.0004 | 1.0000 | 0.0001 | 0.9994 | 0.7418 | 0.1419 |
| 5360 | 1.865672 | 0.0000 | 0.0002 | 1.0000 | 0.0001 | 0.9994 | 0.7417 | 0.1419 |
| 5361 | 1.865324 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9994 | 0.7416 | 0.1420 |
| 5362 | 1.864976 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9994 | 0.7416 | 0.1420 |
| 5363 | 1.864628 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9994 | 0.7415 | 0.1420 |
| 5364 | 1.864280 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9994 | 0.7415 | 0.1420 |
| 5365 | 1.863933 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7414 | 0.1421 |
| 5366 | 1.863586 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7413 | 0.1421 |
| 5367 | 1.863238 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7413 | 0.1421 |
| 5368 | 1.862891 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7412 | 0.1421 |
| 5369 | 1.862544 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7412 | 0.1422 |
| 5370 | 1.862197 | 0.0000 | 0.0002 | 1.0000 | 0.0001 | 0.9993 | 0.7411 | 0.1422 |
| 5371 | 1.861851 | 0.0000 | 0.0001 | 1.0000 | 0.0001 | 0.9993 | 0.7410 | 0.1422 |
| 5372 | 1.861504 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7410 | 0.1422 |
| 5373 | 1.861158 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7409 | 0.1422 |
| 5374 | 1.860811 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7409 | 0.1423 |
| 5375 | 1.860465 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7408 | 0.1423 |
| 5376 | 1.860119 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7407 | 0.1423 |
| 5377 | 1.859773 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7407 | 0.1423 |
| 5378 | 1.859427 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7406 | 0.1424 |
| 5379 | 1.859082 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7406 | 0.1424 |
| 5380 | 1.858736 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7405 | 0.1424 |
| 5381 | 1.858391 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7404 | 0.1424 |
| 5382 | 1.858045 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7404 | 0.1425 |
| 5383 | 1.857700 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7403 | 0.1425 |
| 5384 | 1.857355 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7403 | 0.1425 |
| 5385 | 1.857010 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7402 | 0.1425 |
| 5386 | 1.856665 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7401 | 0.1426 |
| 5387 | 1.856321 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7401 | 0.1426 |
| 5388 | 1.855976 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7400 | 0.1426 |
| 5389 | 1.855632 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7400 | 0.1426 |
| 5390 | 1.855288 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7399 | 0.1427 |
| 5391 | 1.854943 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7399 | 0.1427 |
| 5392 | 1.854599 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7398 | 0.1427 |
| 5393 | 1.854256 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7397 | 0.1427 |
| 5394 | 1.853912 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7397 | 0.1428 |
| 5395 | 1.853568 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7396 | 0.1428 |
| 5396 | 1.853225 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7396 | 0.1428 |
| 5397 | 1.852881 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7395 | 0.1428 |
| 5398 | 1.852538 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7394 | 0.1429 |



|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 5399 | 1.852195 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7394 | 0.1429 |
| 5400 | 1.851852 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7393 | 0.1429 |
| 5401 | 1.851509 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7393 | 0.1429 |
| 5402 | 1.851166 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7392 | 0.1430 |
| 5403 | 1.850824 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7391 | 0.1430 |
| 5404 | 1.850481 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7391 | 0.1430 |
| 5405 | 1.850139 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7390 | 0.1430 |
| 5406 | 1.849797 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7390 | 0.1431 |
| 5407 | 1.849454 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7389 | 0.1431 |
| 5408 | 1.849112 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7389 | 0.1431 |
| 5409 | 1.848771 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7388 | 0.1431 |
| 5410 | 1.848429 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.9993 | 0.7387 | 0.1432 |
| 5411 | 1.848087 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.9993 | 0.7387 | 0.1432 |
| 5412 | 1.847746 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.9993 | 0.7386 | 0.1432 |
| 5413 | 1.847404 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.9993 | 0.7386 | 0.1432 |
| 5414 | 1.847063 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.9993 | 0.7385 | 0.1432 |
| 5415 | 1.846722 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.9993 | 0.7384 | 0.1433 |
| 5416 | 1.846381 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.9993 | 0.7384 | 0.1433 |
| 5417 | 1.846040 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.9993 | 0.7383 | 0.1433 |
| 5418 | 1.845700 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.9993 | 0.7383 | 0.1433 |
| 5419 | 1.845359 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.9993 | 0.7382 | 0.1434 |
| 5420 | 1.845018 | 0.0000 | 0.0001 | 1.0000 | 0.0000 | 0.9993 | 0.7382 | 0.1434 |
| 5421 | 1.844678 | 0.0000 | 0.0002 | 1.0000 | 0.0000 | 0.9993 | 0.7381 | 0.1434 |
| 5422 | 1.844338 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7380 | 0.1434 |
| 5423 | 1.843998 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7380 | 0.1435 |
| 5424 | 1.843658 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7379 | 0.1435 |
| 5425 | 1.843318 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7379 | 0.1435 |
| 5426 | 1.842978 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7378 | 0.1435 |
| 5427 | 1.842639 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7377 | 0.1436 |
| 5428 | 1.842299 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7377 | 0.1436 |
| 5429 | 1.841960 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7376 | 0.1436 |
| 5430 | 1.841621 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7376 | 0.1436 |
| 5431 | 1.841282 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7375 | 0.1437 |
| 5432 | 1.840943 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7375 | 0.1437 |
| 5433 | 1.840604 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7374 | 0.1437 |
| 5434 | 1.840265 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7373 | 0.1437 |
| 5435 | 1.839926 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7373 | 0.1438 |
| 5436 | 1.839588 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7372 | 0.1438 |
| 5437 | 1.839250 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7372 | 0.1438 |
| 5438 | 1.838911 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7371 | 0.1438 |
| 5439 | 1.838573 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7371 | 0.1438 |
| 5440 | 1.838235 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7370 | 0.1439 |
| 5441 | 1.837897 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7369 | 0.1439 |
| 5442 | 1.837560 | 0.0000 | 0.0000 | 1.0000 | 0.0001 | 0.9993 | 0.7369 | 0.1439 |
| 5443 | 1.837222 | 0.0000 | 0.0000 | 1.0000 | 0.0002 | 0.9993 | 0.7368 | 0.1439 |
| 5444 | 1.836885 | 0.0000 | 0.0000 | 1.0000 | 0.0002 | 0.9993 | 0.7368 | 0.1440 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 5445 | 1.836547 | 0.0000 | 0.0000 | 1.0000 | 0.0002 | 0.9993 | 0.7367 | 0.1440 |
| 5446 | 1.836210 | 0.0000 | 0.0000 | 1.0000 | 0.0002 | 0.9993 | 0.7366 | 0.1440 |
| 5447 | 1.835873 | 0.0000 | 0.0000 | 1.0000 | 0.0002 | 0.9993 | 0.7366 | 0.1440 |
| 5448 | 1.835536 | 0.0000 | 0.0000 | 1.0000 | 0.0002 | 0.9993 | 0.7365 | 0.1441 |
| 5449 | 1.835199 | 0.0000 | 0.0000 | 1.0000 | 0.0003 | 0.9993 | 0.7365 | 0.1441 |
| 5450 | 1.834862 | 0.0000 | 0.0000 | 1.0000 | 0.0003 | 0.9993 | 0.7364 | 0.1441 |
| 5451 | 1.834526 | 0.0000 | 0.0000 | 1.0000 | 0.0003 | 0.9993 | 0.7364 | 0.1441 |
| 5452 | 1.834189 | 0.0000 | 0.0000 | 1.0000 | 0.0004 | 0.9993 | 0.7363 | 0.1442 |
| 5453 | 1.833853 | 0.0000 | 0.0000 | 1.0000 | 0.0004 | 0.9993 | 0.7362 | 0.1442 |
| 5454 | 1.833517 | 0.0000 | 0.0000 | 1.0000 | 0.0004 | 0.9993 | 0.7362 | 0.1442 |
| 5455 | 1.833181 | 0.0000 | 0.0000 | 1.0000 | 0.0004 | 0.9993 | 0.7361 | 0.1442 |
| 5456 | 1.832845 | 0.0000 | 0.0000 | 1.0000 | 0.0005 | 0.9993 | 0.7361 | 0.1443 |
| 5457 | 1.832509 | 0.0000 | 0.0000 | 1.0000 | 0.0005 | 0.9993 | 0.7360 | 0.1443 |
| 5458 | 1.832173 | 0.0000 | 0.0000 | 1.0000 | 0.0006 | 0.9993 | 0.7360 | 0.1443 |
| 5459 | 1.831837 | 0.0000 | 0.0000 | 1.0000 | 0.0006 | 0.9993 | 0.7359 | 0.1443 |
| 5460 | 1.831502 | 0.0000 | 0.0000 | 1.0000 | 0.0007 | 0.9993 | 0.7358 | 0.1443 |
| 5461 | 1.831166 | 0.0000 | 0.0000 | 1.0000 | 0.0008 | 0.9993 | 0.7358 | 0.1444 |
| 5462 | 1.830831 | 0.0000 | 0.0000 | 1.0000 | 0.0009 | 0.9993 | 0.7357 | 0.1444 |
| 5463 | 1.830496 | 0.0000 | 0.0000 | 1.0000 | 0.0010 | 0.9993 | 0.7357 | 0.1444 |
| 5464 | 1.830161 | 0.0000 | 0.0000 | 1.0000 | 0.0011 | 0.9993 | 0.7356 | 0.1444 |
| 5465 | 1.829826 | 0.0000 | 0.0000 | 1.0000 | 0.0012 | 0.9993 | 0.7356 | 0.1445 |
| 5466 | 1.829491 | 0.0000 | 0.0000 | 1.0000 | 0.0013 | 0.9993 | 0.7355 | 0.1445 |
| 5467 | 1.829157 | 0.0000 | 0.0000 | 1.0000 | 0.0015 | 0.9993 | 0.7354 | 0.1445 |
| 5468 | 1.828822 | 0.0000 | 0.0000 | 1.0000 | 0.0016 | 0.9993 | 0.7354 | 0.1445 |
| 5469 | 1.828488 | 0.0000 | 0.0000 | 1.0000 | 0.0018 | 0.9993 | 0.7353 | 0.1446 |
| 5470 | 1.828154 | 0.0000 | 0.0000 | 1.0000 | 0.0019 | 0.9993 | 0.7353 | 0.1446 |
| 5471 | 1.827819 | 0.0000 | 0.0000 | 1.0000 | 0.0023 | 0.9993 | 0.7352 | 0.1446 |
| 5472 | 1.827485 | 0.0000 | 0.0000 | 1.0000 | 0.0026 | 0.9993 | 0.7352 | 0.1446 |
| 5473 | 1.827151 | 0.0000 | 0.0000 | 1.0000 | 0.0029 | 0.9993 | 0.7351 | 0.1447 |
| 5474 | 1.826818 | 0.0000 | 0.0000 | 1.0000 | 0.0032 | 0.9993 | 0.7350 | 0.1447 |
| 5475 | 1.826484 | 0.0000 | 0.0000 | 1.0000 | 0.0036 | 0.9993 | 0.7350 | 0.1447 |
| 5476 | 1.826150 | 0.0000 | 0.0000 | 1.0000 | 0.0042 | 0.9993 | 0.7349 | 0.1447 |
| 5477 | 1.825817 | 0.0000 | 0.0000 | 1.0000 | 0.0047 | 0.9993 | 0.7349 | 0.1447 |
| 5478 | 1.825484 | 0.0000 | 0.0000 | 1.0000 | 0.0053 | 0.9993 | 0.7348 | 0.1448 |
| 5479 | 1.825151 | 0.0000 | 0.0005 | 1.0000 | 0.0059 | 0.9993 | 0.7348 | 0.1448 |
| 5480 | 1.824818 | 0.0000 | 0.0003 | 1.0000 | 0.0065 | 0.9993 | 0.7347 | 0.1448 |
| 5481 | 1.824485 | 0.0000 | 0.0067 | 1.0000 | 0.0072 | 0.9993 | 0.7346 | 0.1448 |
| 5482 | 1.824152 | 0.0002 | 0.0319 | 1.0000 | 0.0079 | 0.9993 | 0.7346 | 0.1449 |
| 5483 | 1.823819 | 0.0002 | 0.0377 | 1.0000 | 0.0086 | 0.9993 | 0.7345 | 0.1449 |
| 5484 | 1.823487 | 0.0001 | 0.0078 | 1.0000 | 0.0093 | 0.9993 | 0.7345 | 0.1449 |
| 5485 | 1.823154 | 0.0000 | 0.0000 | 1.0000 | 0.0100 | 0.9993 | 0.7344 | 0.1449 |
| 5486 | 1.822822 | 0.0000 | 0.0000 | 1.0000 | 0.0110 | 0.9993 | 0.7344 | 0.1450 |
| 5487 | 1.822490 | 0.0000 | 0.0000 | 1.0000 | 0.0121 | 0.9993 | 0.7343 | 0.1450 |
| 5488 | 1.822157 | 0.0000 | 0.0000 | 1.0000 | 0.0132 | 0.9993 | 0.7343 | 0.1450 |
| 5489 | 1.821825 | 0.0000 | 0.0000 | 1.0000 | 0.0142 | 0.9993 | 0.7342 | 0.1450 |
| 5490 | 1.821494 | 0.0000 | 0.0000 | 1.0000 | 0.0153 | 0.9993 | 0.7341 | 0.1451 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 5491 | 1.821162 | 0.0000 | 0.0000 | 1.0000 | 0.0167 | 0.9993 | 0.7341 | 0.1451 |
| 5492 | 1.820830 | 0.0000 | 0.0000 | 1.0000 | 0.0182 | 0.9993 | 0.7340 | 0.1451 |
| 5493 | 1.820499 | 0.0000 | 0.0000 | 1.0000 | 0.0196 | 0.9993 | 0.7340 | 0.1451 |
| 5494 | 1.820167 | 0.0000 | 0.0000 | 1.0000 | 0.0210 | 0.9993 | 0.7339 | 0.1451 |
| 5495 | 1.819836 | 0.0000 | 0.0000 | 1.0000 | 0.0225 | 0.9993 | 0.7339 | 0.1452 |
| 5496 | 1.819505 | 0.0000 | 0.0001 | 1.0000 | 0.0246 | 0.9993 | 0.7338 | 0.1452 |
| 5497 | 1.819174 | 0.0000 | 0.0002 | 1.0000 | 0.0267 | 0.9993 | 0.7337 | 0.1452 |
| 5498 | 1.818843 | 0.0000 | 0.0000 | 1.0000 | 0.0288 | 0.9993 | 0.7337 | 0.1452 |
| 5499 | 1.818512 | 0.0000 | 0.0000 | 1.0000 | 0.0310 | 0.9993 | 0.7336 | 0.1453 |
| 5500 | 1.818182 | 0.0000 | 0.0000 | 1.0000 | 0.0331 | 0.9993 | 0.7336 | 0.1453 |
| 5501 | 1.817851 | 0.0005 | 0.0195 | 0.9984 | 0.0359 | 0.9993 | 0.7335 | 0.1453 |
| 5502 | 1.817521 | 0.0008 | 0.0266 | 0.9986 | 0.0387 | 0.9993 | 0.7335 | 0.1453 |
| 5503 | 1.817191 | 0.0000 | 0.0004 | 0.9999 | 0.0415 | 0.9993 | 0.7334 | 0.1454 |
| 5504 | 1.816860 | 0.0000 | 0.0000 | 0.9995 | 0.0443 | 0.9993 | 0.7334 | 0.1454 |
| 5505 | 1.816530 | 0.0000 | 0.0002 | 0.9998 | 0.0471 | 0.9993 | 0.7333 | 0.1454 |
| 5506 | 1.816201 | 0.0000 | 0.0000 | 0.9998 | 0.0511 | 0.9993 | 0.7332 | 0.1454 |
| 5507 | 1.815871 | 0.0000 | 0.0000 | 0.9998 | 0.0552 | 0.9993 | 0.7332 | 0.1455 |
| 5508 | 1.815541 | 0.0000 | 0.0000 | 1.0000 | 0.0592 | 0.9993 | 0.7331 | 0.1455 |
| 5509 | 1.815211 | 0.0000 | 0.0000 | 0.9990 | 0.0632 | 0.9993 | 0.7331 | 0.1455 |
| 5510 | 1.814882 | 0.0000 | 0.0000 | 0.9999 | 0.0672 | 0.9993 | 0.7330 | 0.1455 |
| 5511 | 1.814553 | 0.0003 | 0.0054 | 0.9998 | 0.0714 | 0.9993 | 0.7330 | 0.1455 |
| 5512 | 1.814224 | 0.0028 | 0.0517 | 0.9930 | 0.0756 | 0.9993 | 0.7329 | 0.1456 |
| 5513 | 1.813894 | 0.0015 | 0.0256 | 0.9945 | 0.0799 | 0.9993 | 0.7328 | 0.1456 |
| 5514 | 1.813565 | 0.0000 | 0.0005 | 0.9958 | 0.0841 | 0.9993 | 0.7328 | 0.1456 |
| 5515 | 1.813237 | 0.0000 | 0.0000 | 0.9980 | 0.0883 | 0.9993 | 0.7327 | 0.1456 |
| 5516 | 1.812908 | 0.0000 | 0.0000 | 0.9992 | 0.0939 | 0.9993 | 0.7327 | 0.1457 |
| 5517 | 1.812579 | 0.0000 | 0.0000 | 0.9993 | 0.0994 | 0.9993 | 0.7326 | 0.1457 |
| 5518 | 1.812251 | 0.0000 | 0.0001 | 0.9999 | 0.1050 | 0.9993 | 0.7326 | 0.1457 |
| 5519 | 1.811922 | 0.0000 | 0.0002 | 0.9987 | 0.1105 | 0.9993 | 0.7325 | 0.1457 |
| 5520 | 1.811594 | 0.0000 | 0.0003 | 0.9990 | 0.1161 | 0.9993 | 0.7325 | 0.1458 |
| 5521 | 1.811266 | 0.0000 | 0.0000 | 0.9999 | 0.1234 | 0.9993 | 0.7324 | 0.1458 |
| 5522 | 1.810938 | 0.0000 | 0.0000 | 0.9997 | 0.1308 | 0.9993 | 0.7323 | 0.1458 |
| 5523 | 1.810610 | 0.0000 | 0.0000 | 0.9899 | 0.1382 | 0.9993 | 0.7323 | 0.1458 |
| 5524 | 1.810282 | 0.0006 | 0.0059 | 0.9961 | 0.1456 | 0.9993 | 0.7322 | 0.1458 |
| 5525 | 1.809955 | 0.0067 | 0.0602 | 0.9934 | 0.1529 | 0.9993 | 0.7322 | 0.1459 |
| 5526 | 1.809627 | 0.0042 | 0.0355 | 0.9988 | 0.1626 | 0.9993 | 0.7321 | 0.1459 |
| 5527 | 1.809300 | 0.0060 | 0.0474 | 0.9999 | 0.1724 | 0.9993 | 0.7321 | 0.1459 |
| 5528 | 1.808973 | 0.0004 | 0.0030 | 0.9999 | 0.1821 | 0.9993 | 0.7320 | 0.1459 |
| 5529 | 1.808645 | 0.0012 | 0.0086 | 0.9999 | 0.1918 | 0.9993 | 0.7320 | 0.1460 |
| 5530 | 1.808318 | 0.0324 | 0.2206 | 0.9978 | 0.2015 | 0.9993 | 0.7319 | 0.1460 |
| 5531 | 1.807991 | 0.0100 | 0.0651 | 0.9973 | 0.2104 | 0.9993 | 0.7318 | 0.1460 |
| 5532 | 1.807664 | 0.0001 | 0.0008 | 0.9999 | 0.2193 | 0.9993 | 0.7318 | 0.1460 |
| 5533 | 1.807338 | 0.0000 | 0.0000 | 0.9998 | 0.2281 | 0.9993 | 0.7317 | 0.1461 |
| 5534 | 1.807011 | 0.0006 | 0.0035 | 0.9951 | 0.2370 | 0.9993 | 0.7317 | 0.1461 |
| 5535 | 1.806685 | 0.0000 | 0.0000 | 0.9935 | 0.2458 | 0.9993 | 0.7316 | 0.1461 |
| 5536 | 1.806358 | 0.0001 | 0.0003 | 0.9990 | 0.2566 | 0.9993 | 0.7316 | 0.1461 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 5537 | 1.806032 | 0.0000 | 0.0000 | 0.9999 | 0.2674 | 0.9993 | 0.7315 | 0.1461 |
| 5538 | 1.805706 | 0.0000 | 0.0000 | 0.9999 | 0.2783 | 0.9993 | 0.7315 | 0.1462 |
| 5539 | 1.805380 | 0.0128 | 0.0604 | 0.9987 | 0.2891 | 0.9993 | 0.7314 | 0.1462 |
| 5540 | 1.805054 | 0.0611 | 0.2787 | 0.9999 | 0.2999 | 0.9993 | 0.7313 | 0.1462 |
| 5541 | 1.804728 | 0.0286 | 0.1263 | 1.0000 | 0.3096 | 0.9993 | 0.7313 | 0.1462 |
| 5542 | 1.804403 | 0.0144 | 0.0619 | 0.9999 | 0.3193 | 0.9993 | 0.7312 | 0.1463 |
| 5543 | 1.804077 | 0.0015 | 0.0062 | 0.9999 | 0.3290 | 0.9993 | 0.7312 | 0.1463 |
| 5544 | 1.803752 | 0.0051 | 0.0207 | 0.9998 | 0.3387 | 0.9993 | 0.7311 | 0.1463 |
| 5545 | 1.803427 | 0.0018 | 0.0073 | 0.9960 | 0.3484 | 0.9993 | 0.7311 | 0.1463 |
| 5546 | 1.803101 | 0.0072 | 0.0279 | 0.9861 | 0.3597 | 0.9993 | 0.7310 | 0.1464 |
| 5547 | 1.802776 | 0.0003 | 0.0012 | 0.9996 | 0.3710 | 0.9993 | 0.7310 | 0.1464 |
| 5548 | 1.802451 | 0.0004 | 0.0014 | 0.9999 | 0.3823 | 0.9993 | 0.7309 | 0.1464 |
| 5549 | 1.802127 | 0.0003 | 0.0011 | 0.9997 | 0.3936 | 0.9993 | 0.7309 | 0.1464 |
| 5550 | 1.801802 | 0.0000 | 0.0001 | 0.9995 | 0.4049 | 0.9993 | 0.7308 | 0.1464 |
| 5551 | 1.801477 | 0.0001 | 0.0003 | 1.0000 | 0.4139 | 0.9993 | 0.7307 | 0.1465 |
| 5552 | 1.801153 | 0.0001 | 0.0003 | 1.0000 | 0.4229 | 0.9993 | 0.7307 | 0.1465 |
| 5553 | 1.800828 | 0.0000 | 0.0000 | 0.9999 | 0.4319 | 0.9993 | 0.7306 | 0.1465 |
| 5554 | 1.800504 | 0.0000 | 0.0000 | 0.9999 | 0.4409 | 0.9993 | 0.7306 | 0.1465 |
| 5555 | 1.800180 | 0.0006 | 0.0018 | 0.9997 | 0.4499 | 0.9993 | 0.7305 | 0.1466 |
| 5556 | 1.799856 | 0.0001 | 0.0002 | 0.9896 | 0.4599 | 0.9993 | 0.7305 | 0.1466 |
| 5557 | 1.799532 | 0.0402 | 0.1176 | 0.9958 | 0.4700 | 0.9993 | 0.7304 | 0.1466 |
| 5558 | 1.799208 | 0.1477 | 0.4222 | 0.9988 | 0.4800 | 0.9993 | 0.7304 | 0.1466 |
| 5559 | 1.798885 | 0.1927 | 0.5390 | 0.9999 | 0.4900 | 0.9993 | 0.7303 | 0.1466 |
| 5560 | 1.798561 | 0.1211 | 0.3321 | 0.9994 | 0.5000 | 0.9992 | 0.7302 | 0.1467 |
| 5561 | 1.798238 | 0.0089 | 0.0239 | 0.9992 | 0.5088 | 0.9992 | 0.7302 | 0.1467 |
| 5562 | 1.797914 | 0.1285 | 0.3404 | 0.9999 | 0.5176 | 0.9992 | 0.7301 | 0.1467 |
| 5563 | 1.797591 | 0.1628 | 0.4241 | 0.9998 | 0.5264 | 0.9992 | 0.7301 | 0.1467 |
| 5564 | 1.797268 | 0.0684 | 0.1754 | 0.9995 | 0.5352 | 0.9992 | 0.7300 | 0.1468 |
| 5565 | 1.796945 | 0.0005 | 0.0013 | 0.9998 | 0.5440 | 0.9992 | 0.7300 | 0.1468 |
| 5566 | 1.796622 | 0.0661 | 0.1638 | 0.9998 | 0.5536 | 0.9992 | 0.7299 | 0.1468 |
| 5567 | 1.796300 | 0.0430 | 0.1056 | 0.9921 | 0.5632 | 0.9992 | 0.7299 | 0.1468 |
| 5568 | 1.795977 | 0.0152 | 0.0365 | 0.9996 | 0.5728 | 0.9992 | 0.7298 | 0.1469 |
| 5569 | 1.795655 | 0.0773 | 0.1821 | 0.9991 | 0.5824 | 0.9992 | 0.7298 | 0.1469 |
| 5570 | 1.795332 | 0.0043 | 0.0099 | 0.9998 | 0.5919 | 0.9992 | 0.7297 | 0.1469 |
| 5571 | 1.795010 | 0.1027 | 0.2350 | 0.9998 | 0.5996 | 0.9992 | 0.7296 | 0.1469 |
| 5572 | 1.794688 | 0.0871 | 0.1973 | 0.9966 | 0.6073 | 0.9992 | 0.7296 | 0.1469 |
| 5573 | 1.794366 | 0.0394 | 0.0882 | 0.9966 | 0.6150 | 0.9992 | 0.7295 | 0.1470 |
| 5574 | 1.794044 | 0.0005 | 0.0011 | 0.9978 | 0.6226 | 0.9992 | 0.7295 | 0.1470 |
| 5575 | 1.793722 | 0.0323 | 0.0708 | 0.9922 | 0.6303 | 0.9992 | 0.7294 | 0.1470 |
| 5576 | 1.793400 | 0.0100 | 0.0216 | 0.9943 | 0.6385 | 0.9992 | 0.7294 | 0.1470 |
| 5577 | 1.793079 | 0.1089 | 0.2313 | 0.9985 | 0.6467 | 0.9992 | 0.7293 | 0.1471 |
| 5578 | 1.792757 | 0.0168 | 0.0356 | 0.9910 | 0.6549 | 0.9992 | 0.7293 | 0.1471 |
| 5579 | 1.792436 | 0.0334 | 0.0697 | 0.9908 | 0.6631 | 0.9992 | 0.7292 | 0.1471 |
| 5580 | 1.792115 | 0.1146 | 0.2373 | 0.9876 | 0.6713 | 0.9992 | 0.7292 | 0.1471 |
| 5581 | 1.791794 | 0.1405 | 0.2857 | 0.9949 | 0.6785 | 0.9992 | 0.7291 | 0.1471 |
| 5582 | 1.791473 | 0.0525 | 0.1055 | 0.9974 | 0.6858 | 0.9992 | 0.7291 | 0.1472 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 5583 | 1.791152 | 0.1425 | 0.2869 | 0.9841 | 0.6930 | 0.9992 | 0.7290 | 0.1472 |
| 5584 | 1.790831 | 0.0315 | 0.0629 | 0.9816 | 0.7003 | 0.9992 | 0.7289 | 0.1472 |
| 5585 | 1.790510 | 0.0297 | 0.0586 | 0.9827 | 0.7075 | 0.9992 | 0.7289 | 0.1472 |
| 5586 | 1.790190 | 0.3545 | 0.6941 | 0.9806 | 0.7152 | 0.9992 | 0.7288 | 0.1473 |
| 5587 | 1.789869 | 0.4533 | 0.8723 | 0.9872 | 0.7229 | 0.9992 | 0.7288 | 0.1473 |
| 5588 | 1.789549 | 0.4728 | 0.8896 | 0.9991 | 0.7305 | 0.9992 | 0.7287 | 0.1473 |
| 5589 | 1.789229 | 0.4083 | 0.7621 | 0.9968 | 0.7382 | 0.9992 | 0.7287 | 0.1473 |
| 5590 | 1.788909 | 0.0620 | 0.1143 | 0.9988 | 0.7458 | 0.9992 | 0.7286 | 0.1474 |
| 5591 | 1.788589 | 0.4160 | 0.7630 | 0.9976 | 0.7508 | 0.9992 | 0.7286 | 0.1474 |
| 5592 | 1.788269 | 0.4391 | 0.7997 | 0.9981 | 0.7557 | 0.9992 | 0.7285 | 0.1474 |
| 5593 | 1.787949 | 0.3881 | 0.7016 | 0.9991 | 0.7606 | 0.9992 | 0.7285 | 0.1474 |
| 5594 | 1.787630 | 0.1852 | 0.3338 | 0.9958 | 0.7656 | 0.9992 | 0.7284 | 0.1474 |
| 5595 | 1.787310 | 0.1773 | 0.3169 | 0.9979 | 0.7705 | 0.9992 | 0.7283 | 0.1475 |
| 5596 | 1.786991 | 0.0113 | 0.0201 | 0.9996 | 0.7756 | 0.9992 | 0.7283 | 0.1475 |
| 5597 | 1.786671 | 0.1090 | 0.1930 | 0.9941 | 0.7807 | 0.9992 | 0.7282 | 0.1475 |
| 5598 | 1.786352 | 0.1424 | 0.2497 | 0.9972 | 0.7858 | 0.9992 | 0.7282 | 0.1475 |
| 5599 | 1.786033 | 0.0203 | 0.0354 | 0.9982 | 0.7909 | 0.9992 | 0.7281 | 0.1476 |
| 5600 | 1.785714 | 0.0474 | 0.0820 | 0.9981 | 0.7960 | 0.9992 | 0.7281 | 0.1476 |
| 5601 | 1.785395 | 0.2639 | 0.4552 | 0.9962 | 0.7999 | 0.9992 | 0.7280 | 0.1476 |
| 5602 | 1.785077 | 0.0209 | 0.0360 | 0.9939 | 0.8038 | 0.9992 | 0.7280 | 0.1476 |
| 5603 | 1.784758 | 0.0009 | 0.0015 | 0.9962 | 0.8078 | 0.9992 | 0.7279 | 0.1476 |
| 5604 | 1.784440 | 0.0585 | 0.0995 | 0.9963 | 0.8117 | 0.9992 | 0.7279 | 0.1477 |
| 5605 | 1.784121 | 0.0570 | 0.0964 | 0.9972 | 0.8156 | 0.9992 | 0.7278 | 0.1477 |
| 5606 | 1.783803 | 0.2933 | 0.4925 | 0.9992 | 0.8196 | 0.9992 | 0.7278 | 0.1477 |
| 5607 | 1.783485 | 0.2736 | 0.4594 | 0.9944 | 0.8236 | 0.9992 | 0.7277 | 0.1477 |
| 5608 | 1.783167 | 0.4698 | 0.7821 | 0.9984 | 0.8276 | 0.9992 | 0.7276 | 0.1478 |
| 5609 | 1.782849 | 0.5305 | 0.8788 | 0.9984 | 0.8316 | 0.9992 | 0.7276 | 0.1478 |
| 5610 | 1.782531 | 0.3711 | 0.6110 | 0.9999 | 0.8356 | 0.9992 | 0.7275 | 0.1478 |
| 5611 | 1.782214 | 0.5038 | 0.8276 | 0.9990 | 0.8382 | 0.9992 | 0.7275 | 0.1478 |
| 5612 | 1.781896 | 0.2923 | 0.4786 | 0.9992 | 0.8408 | 0.9992 | 0.7274 | 0.1478 |
| 5613 | 1.781578 | 0.0648 | 0.1057 | 0.9994 | 0.8434 | 0.9992 | 0.7274 | 0.1479 |
| 5614 | 1.781261 | 0.0068 | 0.0110 | 0.9996 | 0.8460 | 0.9992 | 0.7273 | 0.1479 |
| 5615 | 1.780944 | 0.1629 | 0.2644 | 0.9988 | 0.8486 | 0.9992 | 0.7273 | 0.1479 |
| 5616 | 1.780627 | 0.4612 | 0.7522 | 0.9911 | 0.8512 | 0.9992 | 0.7272 | 0.1479 |
| 5617 | 1.780310 | 0.4176 | 0.6736 | 0.9993 | 0.8539 | 0.9992 | 0.7272 | 0.1480 |
| 5618 | 1.779993 | 0.5027 | 0.8082 | 0.9995 | 0.8565 | 0.9992 | 0.7271 | 0.1480 |
| 5619 | 1.779676 | 0.3419 | 0.5480 | 0.9996 | 0.8591 | 0.9992 | 0.7271 | 0.1480 |
| 5620 | 1.779359 | 0.2438 | 0.3896 | 0.9997 | 0.8618 | 0.9992 | 0.7270 | 0.1480 |
| 5621 | 1.779043 | 0.1191 | 0.1899 | 0.9994 | 0.8639 | 0.9992 | 0.7270 | 0.1480 |
| 5622 | 1.778726 | 0.0168 | 0.0268 | 0.9988 | 0.8660 | 0.9992 | 0.7269 | 0.1481 |
| 5623 | 1.778410 | 0.0797 | 0.1275 | 0.9912 | 0.8681 | 0.9992 | 0.7268 | 0.1481 |
| 5624 | 1.778094 | 0.4589 | 0.7296 | 0.9953 | 0.8703 | 0.9992 | 0.7268 | 0.1481 |
| 5625 | 1.777778 | 0.3257 | 0.5180 | 0.9925 | 0.8724 | 0.9992 | 0.7267 | 0.1481 |
| 5626 | 1.777462 | 0.5002 | 0.7916 | 0.9952 | 0.8745 | 0.9992 | 0.7267 | 0.1482 |
| 5627 | 1.777146 | 0.3647 | 0.5739 | 0.9984 | 0.8767 | 0.9992 | 0.7266 | 0.1482 |
| 5628 | 1.776830 | 0.4201 | 0.6621 | 0.9945 | 0.8788 | 0.9992 | 0.7266 | 0.1482 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 5629 | 1.776514 | 0.2313 | 0.3619 | 0.9995 | 0.8810 | 0.9992 | 0.7265 | 0.1482 |
| 5630 | 1.776199 | 0.0515 | 0.0806 | 0.9959 | 0.8832 | 0.9992 | 0.7265 | 0.1482 |
| 5631 | 1.775884 | 0.1000 | 0.1561 | 0.9968 | 0.8849 | 0.9992 | 0.7264 | 0.1483 |
| 5632 | 1.775568 | 0.3941 | 0.6173 | 0.9923 | 0.8866 | 0.9992 | 0.7264 | 0.1483 |
| 5633 | 1.775253 | 0.5451 | 0.8550 | 0.9889 | 0.8883 | 0.9992 | 0.7263 | 0.1483 |
| 5634 | 1.774938 | 0.3495 | 0.5482 | 0.9870 | 0.8900 | 0.9992 | 0.7263 | 0.1483 |
| 5635 | 1.774623 | 0.4102 | 0.6372 | 0.9947 | 0.8918 | 0.9992 | 0.7262 | 0.1484 |
| 5636 | 1.774308 | 0.1506 | 0.2326 | 0.9985 | 0.8935 | 0.9992 | 0.7262 | 0.1484 |
| 5637 | 1.773993 | 0.0799 | 0.1235 | 0.9962 | 0.8953 | 0.9992 | 0.7261 | 0.1484 |
| 5638 | 1.773679 | 0.3746 | 0.5781 | 0.9957 | 0.8970 | 0.9992 | 0.7261 | 0.1484 |
| 5639 | 1.773364 | 0.5913 | 0.9097 | 0.9971 | 0.8987 | 0.9992 | 0.7260 | 0.1484 |
| 5640 | 1.773050 | 0.4879 | 0.7503 | 0.9955 | 0.9005 | 0.9992 | 0.7259 | 0.1485 |
| 5641 | 1.772735 | 0.5090 | 0.7788 | 0.9990 | 0.9020 | 0.9992 | 0.7259 | 0.1485 |
| 5642 | 1.772421 | 0.4029 | 0.6166 | 0.9973 | 0.9034 | 0.9992 | 0.7258 | 0.1485 |
| 5643 | 1.772107 | 0.5546 | 0.8548 | 0.9886 | 0.9049 | 0.9992 | 0.7258 | 0.1485 |
| 5644 | 1.771793 | 0.6281 | 0.9582 | 0.9974 | 0.9064 | 0.9992 | 0.7257 | 0.1486 |
| 5645 | 1.771479 | 0.5405 | 0.8219 | 0.9990 | 0.9078 | 0.9992 | 0.7257 | 0.1486 |
| 5646 | 1.771165 | 0.3967 | 0.6035 | 0.9970 | 0.9093 | 0.9992 | 0.7256 | 0.1486 |
| 5647 | 1.770852 | 0.1324 | 0.2014 | 0.9959 | 0.9108 | 0.9992 | 0.7256 | 0.1486 |
| 5648 | 1.770538 | 0.4634 | 0.7056 | 0.9930 | 0.9123 | 0.9992 | 0.7255 | 0.1486 |
| 5649 | 1.770225 | 0.5362 | 0.8137 | 0.9947 | 0.9138 | 0.9992 | 0.7255 | 0.1487 |
| 5650 | 1.769912 | 0.2095 | 0.3160 | 0.9993 | 0.9153 | 0.9992 | 0.7254 | 0.1487 |
| 5651 | 1.769598 | 0.3814 | 0.5747 | 0.9992 | 0.9163 | 0.9992 | 0.7254 | 0.1487 |
| 5652 | 1.769285 | 0.5767 | 0.8689 | 0.9983 | 0.9174 | 0.9992 | 0.7253 | 0.1487 |
| 5653 | 1.768972 | 0.4890 | 0.7360 | 0.9984 | 0.9184 | 0.9992 | 0.7253 | 0.1488 |
| 5654 | 1.768659 | 0.5528 | 0.8335 | 0.9954 | 0.9195 | 0.9992 | 0.7252 | 0.1488 |
| 5655 | 1.768347 | 0.3436 | 0.5185 | 0.9936 | 0.9205 | 0.9992 | 0.7252 | 0.1488 |
| 5656 | 1.768034 | 0.5947 | 0.8968 | 0.9932 | 0.9216 | 0.9992 | 0.7251 | 0.1488 |
| 5657 | 1.767721 | 0.5189 | 0.7794 | 0.9960 | 0.9226 | 0.9992 | 0.7250 | 0.1488 |
| 5658 | 1.767409 | 0.6264 | 0.9382 | 0.9978 | 0.9237 | 0.9992 | 0.7250 | 0.1489 |
| 5659 | 1.767097 | 0.4366 | 0.6519 | 0.9999 | 0.9248 | 0.9992 | 0.7249 | 0.1489 |
| 5660 | 1.766784 | 0.5141 | 0.7667 | 0.9999 | 0.9258 | 0.9992 | 0.7249 | 0.1489 |
| 5661 | 1.766472 | 0.4376 | 0.6532 | 0.9984 | 0.9265 | 0.9992 | 0.7248 | 0.1489 |
| 5662 | 1.766160 | 0.1646 | 0.2472 | 0.9920 | 0.9271 | 0.9992 | 0.7248 | 0.1490 |
| 5663 | 1.765848 | 0.0015 | 0.0022 | 0.9968 | 0.9278 | 0.9992 | 0.7247 | 0.1490 |
| 5664 | 1.765537 | 0.0518 | 0.0772 | 0.9988 | 0.9285 | 0.9992 | 0.7247 | 0.1490 |
| 5665 | 1.765225 | 0.4525 | 0.6750 | 0.9967 | 0.9291 | 0.9992 | 0.7246 | 0.1490 |
| 5666 | 1.764914 | 0.5560 | 0.8267 | 0.9992 | 0.9298 | 0.9992 | 0.7246 | 0.1490 |
| 5667 | 1.764602 | 0.5452 | 0.8113 | 0.9977 | 0.9305 | 0.9992 | 0.7245 | 0.1491 |
| 5668 | 1.764291 | 0.6311 | 0.9393 | 0.9968 | 0.9311 | 0.9992 | 0.7245 | 0.1491 |
| 5669 | 1.763980 | 0.6349 | 0.9456 | 0.9955 | 0.9318 | 0.9992 | 0.7244 | 0.1491 |
| 5670 | 1.763668 | 0.5900 | 0.8745 | 0.9997 | 0.9325 | 0.9992 | 0.7244 | 0.1491 |
| 5671 | 1.763357 | 0.4666 | 0.6914 | 0.9996 | 0.9330 | 0.9992 | 0.7243 | 0.1491 |
| 5672 | 1.763047 | 0.2039 | 0.3027 | 0.9971 | 0.9335 | 0.9992 | 0.7243 | 0.1492 |
| 5673 | 1.762736 | 0.4755 | 0.7044 | 0.9987 | 0.9340 | 0.9992 | 0.7242 | 0.1492 |
| 5674 | 1.762425 | 0.2397 | 0.3560 | 0.9960 | 0.9345 | 0.9992 | 0.7242 | 0.1492 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 5675 | 1.762115 | 0.5193 | 0.7696 | 0.9974 | 0.9350 | 0.9992 | 0.7241 | 0.1492 |
| 5676 | 1.761804 | 0.6301 | 0.9313 | 0.9997 | 0.9355 | 0.9992 | 0.7241 | 0.1493 |
| 5677 | 1.761494 | 0.5523 | 0.8163 | 0.9994 | 0.9360 | 0.9992 | 0.7240 | 0.1493 |
| 5678 | 1.761184 | 0.1651 | 0.2439 | 0.9991 | 0.9365 | 0.9992 | 0.7240 | 0.1493 |
| 5679 | 1.760873 | 0.5432 | 0.8038 | 0.9973 | 0.9370 | 0.9992 | 0.7239 | 0.1493 |
| 5680 | 1.760563 | 0.6212 | 0.9174 | 0.9986 | 0.9375 | 0.9992 | 0.7238 | 0.1493 |
| 5681 | 1.760253 | 0.6597 | 0.9749 | 0.9977 | 0.9379 | 0.9992 | 0.7238 | 0.1494 |
| 5682 | 1.759944 | 0.6063 | 0.8939 | 0.9995 | 0.9383 | 0.9992 | 0.7237 | 0.1494 |
| 5683 | 1.759634 | 0.6677 | 0.9839 | 0.9997 | 0.9388 | 0.9992 | 0.7237 | 0.1494 |
| 5684 | 1.759324 | 0.6647 | 0.9797 | 0.9991 | 0.9392 | 0.9992 | 0.7236 | 0.1494 |
| 5685 | 1.759015 | 0.6630 | 0.9776 | 0.9982 | 0.9396 | 0.9992 | 0.7236 | 0.1495 |
| 5686 | 1.758706 | 0.6579 | 0.9699 | 0.9981 | 0.9401 | 0.9992 | 0.7235 | 0.1495 |
| 5687 | 1.758396 | 0.6268 | 0.9228 | 0.9991 | 0.9405 | 0.9992 | 0.7235 | 0.1495 |
| 5688 | 1.758087 | 0.6236 | 0.9175 | 0.9992 | 0.9410 | 0.9992 | 0.7234 | 0.1495 |
| 5689 | 1.757778 | 0.4265 | 0.6270 | 0.9996 | 0.9414 | 0.9992 | 0.7234 | 0.1495 |
| 5690 | 1.757469 | 0.1034 | 0.1518 | 1.0000 | 0.9418 | 0.9992 | 0.7233 | 0.1496 |
| 5691 | 1.757160 | 0.4485 | 0.6586 | 0.9999 | 0.9423 | 0.9992 | 0.7233 | 0.1496 |
| 5692 | 1.756852 | 0.1632 | 0.2395 | 0.9999 | 0.9428 | 0.9992 | 0.7232 | 0.1496 |
| 5693 | 1.756543 | 0.5362 | 0.7867 | 0.9999 | 0.9433 | 0.9992 | 0.7232 | 0.1496 |
| 5694 | 1.756235 | 0.5717 | 0.8384 | 1.0000 | 0.9438 | 0.9992 | 0.7231 | 0.1496 |
| 5695 | 1.755926 | 0.5790 | 0.8489 | 0.9998 | 0.9443 | 0.9992 | 0.7231 | 0.1497 |
| 5696 | 1.755618 | 0.4360 | 0.6403 | 0.9977 | 0.9448 | 0.9992 | 0.7230 | 0.1497 |
| 5697 | 1.755310 | 0.0866 | 0.1270 | 0.9987 | 0.9453 | 0.9992 | 0.7230 | 0.1497 |
| 5698 | 1.755002 | 0.4833 | 0.7082 | 0.9988 | 0.9458 | 0.9992 | 0.7229 | 0.1497 |
| 5699 | 1.754694 | 0.6323 | 0.9292 | 0.9955 | 0.9463 | 0.9992 | 0.7229 | 0.1498 |
| 5700 | 1.754386 | 0.6492 | 0.9505 | 0.9987 | 0.9468 | 0.9992 | 0.7228 | 0.1498 |
| 5701 | 1.754078 | 0.6448 | 0.9446 | 0.9980 | 0.9472 | 0.9992 | 0.7228 | 0.1498 |
| 5702 | 1.753771 | 0.6681 | 0.9793 | 0.9970 | 0.9476 | 0.9992 | 0.7227 | 0.1498 |
| 5703 | 1.753463 | 0.6657 | 0.9735 | 0.9991 | 0.9480 | 0.9992 | 0.7227 | 0.1498 |
| 5704 | 1.753156 | 0.6534 | 0.9551 | 0.9991 | 0.9483 | 0.9992 | 0.7226 | 0.1499 |
| 5705 | 1.752848 | 0.5591 | 0.8164 | 0.9999 | 0.9487 | 0.9992 | 0.7226 | 0.1499 |
| 5706 | 1.752541 | 0.6475 | 0.9454 | 0.9996 | 0.9491 | 0.9992 | 0.7225 | 0.1499 |
| 5707 | 1.752234 | 0.6369 | 0.9298 | 0.9995 | 0.9495 | 0.9992 | 0.7225 | 0.1499 |
| 5708 | 1.751927 | 0.5427 | 0.7922 | 0.9992 | 0.9499 | 0.9992 | 0.7224 | 0.1500 |
| 5709 | 1.751620 | 0.1199 | 0.1750 | 0.9991 | 0.9502 | 0.9992 | 0.7223 | 0.1500 |
| 5710 | 1.751313 | 0.5420 | 0.7905 | 0.9993 | 0.9506 | 0.9992 | 0.7223 | 0.1500 |
| 5711 | 1.751007 | 0.6329 | 0.9234 | 0.9988 | 0.9509 | 0.9992 | 0.7222 | 0.1500 |
| 5712 | 1.750700 | 0.5886 | 0.8585 | 0.9989 | 0.9511 | 0.9992 | 0.7222 | 0.1500 |
| 5713 | 1.750394 | 0.6369 | 0.9282 | 0.9995 | 0.9514 | 0.9992 | 0.7221 | 0.1501 |
| 5714 | 1.750088 | 0.6543 | 0.9573 | 0.9954 | 0.9517 | 0.9992 | 0.7221 | 0.1501 |
| 5715 | 1.749781 | 0.6705 | 0.9781 | 0.9982 | 0.9519 | 0.9992 | 0.7220 | 0.1501 |
| 5716 | 1.749475 | 0.6106 | 0.8900 | 0.9988 | 0.9522 | 0.9992 | 0.7220 | 0.1501 |
| 5717 | 1.749169 | 0.6179 | 0.9022 | 0.9968 | 0.9525 | 0.9992 | 0.7219 | 0.1501 |
| 5718 | 1.748863 | 0.6689 | 0.9761 | 0.9972 | 0.9527 | 0.9992 | 0.7219 | 0.1502 |
| 5719 | 1.748557 | 0.6461 | 0.9401 | 0.9999 | 0.9530 | 0.9992 | 0.7218 | 0.1502 |
| 5720 | 1.748252 | 0.6465 | 0.9407 | 0.9996 | 0.9533 | 0.9992 | 0.7218 | 0.1502 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 5721 | 1.747946 | 0.6118 | 0.8901 | 0.9994 | 0.9536 | 0.9992 | 0.7217 | 0.1502 |
| 5722 | 1.747641 | 0.3262 | 0.4755 | 0.9973 | 0.9539 | 0.9992 | 0.7217 | 0.1503 |
| 5723 | 1.747335 | 0.2917 | 0.4245 | 0.9989 | 0.9542 | 0.9992 | 0.7216 | 0.1503 |
| 5724 | 1.747030 | 0.1456 | 0.2120 | 0.9984 | 0.9545 | 0.9992 | 0.7216 | 0.1503 |
| 5725 | 1.746725 | 0.0875 | 0.1271 | 0.9999 | 0.9548 | 0.9992 | 0.7215 | 0.1503 |
| 5726 | 1.746420 | 0.4917 | 0.7145 | 0.9994 | 0.9552 | 0.9992 | 0.7215 | 0.1503 |
| 5727 | 1.746115 | 0.6193 | 0.9071 | 0.9912 | 0.9555 | 0.9992 | 0.7214 | 0.1504 |
| 5728 | 1.745810 | 0.6608 | 0.9627 | 0.9964 | 0.9558 | 0.9992 | 0.7214 | 0.1504 |
| 5729 | 1.745505 | 0.6679 | 0.9707 | 0.9985 | 0.9561 | 0.9992 | 0.7213 | 0.1504 |
| 5730 | 1.745201 | 0.6599 | 0.9598 | 0.9976 | 0.9564 | 0.9992 | 0.7213 | 0.1504 |
| 5731 | 1.744896 | 0.5981 | 0.8691 | 0.9983 | 0.9566 | 0.9992 | 0.7212 | 0.1504 |
| 5732 | 1.744592 | 0.1981 | 0.2882 | 0.9969 | 0.9569 | 0.9992 | 0.7212 | 0.1505 |
| 5733 | 1.744287 | 0.5944 | 0.8648 | 0.9968 | 0.9571 | 0.9992 | 0.7211 | 0.1505 |
| 5734 | 1.743983 | 0.6615 | 0.9597 | 0.9994 | 0.9573 | 0.9992 | 0.7211 | 0.1505 |
| 5735 | 1.743679 | 0.6759 | 0.9819 | 0.9979 | 0.9575 | 0.9992 | 0.7210 | 0.1505 |
| 5736 | 1.743375 | 0.6771 | 0.9822 | 0.9992 | 0.9577 | 0.9991 | 0.7210 | 0.1506 |
| 5737 | 1.743071 | 0.6044 | 0.8777 | 0.9981 | 0.9580 | 0.9991 | 0.7209 | 0.1506 |
| 5738 | 1.742768 | 0.6765 | 0.9821 | 0.9981 | 0.9582 | 0.9991 | 0.7209 | 0.1506 |
| 5739 | 1.742464 | 0.6756 | 0.9790 | 0.9997 | 0.9584 | 0.9991 | 0.7208 | 0.1506 |
| 5740 | 1.742160 | 0.6620 | 0.9672 | 0.9915 | 0.9586 | 0.9991 | 0.7208 | 0.1506 |
| 5741 | 1.741857 | 0.5430 | 0.7889 | 0.9969 | 0.9588 | 0.9991 | 0.7207 | 0.1507 |
| 5742 | 1.741553 | 0.3500 | 0.5070 | 0.9998 | 0.9589 | 0.9991 | 0.7207 | 0.1507 |
| 5743 | 1.741250 | 0.1481 | 0.2145 | 0.9994 | 0.9591 | 0.9991 | 0.7206 | 0.1507 |
| 5744 | 1.740947 | 0.5682 | 0.8246 | 0.9978 | 0.9592 | 0.9991 | 0.7206 | 0.1507 |
| 5745 | 1.740644 | 0.6555 | 0.9510 | 0.9979 | 0.9593 | 0.9991 | 0.7205 | 0.1507 |
| 5746 | 1.740341 | 0.5899 | 0.8568 | 0.9968 | 0.9595 | 0.9991 | 0.7205 | 0.1508 |
| 5747 | 1.740038 | 0.6317 | 0.9197 | 0.9943 | 0.9596 | 0.9991 | 0.7204 | 0.1508 |
| 5748 | 1.739736 | 0.3312 | 0.4822 | 0.9944 | 0.9598 | 0.9991 | 0.7204 | 0.1508 |
| 5749 | 1.739433 | 0.6473 | 0.9415 | 0.9951 | 0.9599 | 0.9991 | 0.7203 | 0.1508 |
| 5750 | 1.739130 | 0.6773 | 0.9812 | 0.9991 | 0.9601 | 0.9991 | 0.7203 | 0.1508 |
| 5751 | 1.738828 | 0.6391 | 0.9269 | 0.9977 | 0.9603 | 0.9991 | 0.7202 | 0.1509 |
| 5752 | 1.738526 | 0.6791 | 0.9881 | 0.9943 | 0.9606 | 0.9991 | 0.7202 | 0.1509 |
| 5753 | 1.738224 | 0.6105 | 0.8893 | 0.9929 | 0.9609 | 0.9991 | 0.7201 | 0.1509 |
| 5754 | 1.737921 | 0.6598 | 0.9610 | 0.9928 | 0.9612 | 0.9991 | 0.7201 | 0.1509 |
| 5755 | 1.737619 | 0.6647 | 0.9619 | 0.9990 | 0.9615 | 0.9991 | 0.7200 | 0.1510 |
| 5756 | 1.737318 | 0.6756 | 0.9771 | 0.9995 | 0.9618 | 0.9991 | 0.7200 | 0.1510 |
| 5757 | 1.737016 | 0.6008 | 0.8695 | 0.9986 | 0.9620 | 0.9991 | 0.7199 | 0.1510 |
| 5758 | 1.736714 | 0.2107 | 0.3056 | 0.9959 | 0.9623 | 0.9991 | 0.7199 | 0.1510 |
| 5759 | 1.736413 | 0.6007 | 0.8705 | 0.9968 | 0.9626 | 0.9991 | 0.7198 | 0.1510 |
| 5760 | 1.736111 | 0.3366 | 0.4891 | 0.9937 | 0.9629 | 0.9991 | 0.7198 | 0.1511 |
| 5761 | 1.735810 | 0.6227 | 0.9035 | 0.9952 | 0.9631 | 0.9991 | 0.7197 | 0.1511 |
| 5762 | 1.735509 | 0.3663 | 0.5298 | 0.9982 | 0.9633 | 0.9991 | 0.7197 | 0.1511 |
| 5763 | 1.735207 | 0.6553 | 0.9512 | 0.9946 | 0.9634 | 0.9991 | 0.7196 | 0.1511 |
| 5764 | 1.734906 | 0.6665 | 0.9739 | 0.9878 | 0.9636 | 0.9991 | 0.7196 | 0.1511 |
| 5765 | 1.734605 | 0.6823 | 0.9877 | 0.9971 | 0.9638 | 0.9991 | 0.7195 | 0.1512 |
| 5766 | 1.734305 | 0.6557 | 0.9513 | 0.9948 | 0.9640 | 0.9991 | 0.7195 | 0.1512 |



|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 5767 | 1.734004 | 0.6594 | 0.9531 | 0.9982 | 0.9642 | 0.9991 | 0.7194 | 0.1512 |
| 5768 | 1.733703 | 0.6791 | 0.9843 | 0.9953 | 0.9644 | 0.9991 | 0.7194 | 0.1512 |
| 5769 | 1.733403 | 0.6783 | 0.9816 | 0.9968 | 0.9646 | 0.9991 | 0.7193 | 0.1512 |
| 5770 | 1.733102 | 0.6678 | 0.9664 | 0.9967 | 0.9648 | 0.9991 | 0.7193 | 0.1513 |
| 5771 | 1.732802 | 0.5956 | 0.8614 | 0.9972 | 0.9649 | 0.9991 | 0.7192 | 0.1513 |
| 5772 | 1.732502 | 0.1899 | 0.2749 | 0.9965 | 0.9651 | 0.9991 | 0.7192 | 0.1513 |
| 5773 | 1.732202 | 0.5372 | 0.7786 | 0.9949 | 0.9653 | 0.9991 | 0.7191 | 0.1513 |
| 5774 | 1.731902 | 0.2351 | 0.3426 | 0.9893 | 0.9654 | 0.9991 | 0.7191 | 0.1514 |
| 5775 | 1.731602 | 0.6073 | 0.8805 | 0.9943 | 0.9656 | 0.9991 | 0.7190 | 0.1514 |
| 5776 | 1.731302 | 0.6720 | 0.9723 | 0.9963 | 0.9657 | 0.9991 | 0.7190 | 0.1514 |
| 5777 | 1.731002 | 0.6716 | 0.9838 | 0.9839 | 0.9659 | 0.9991 | 0.7189 | 0.1514 |
| 5778 | 1.730703 | 0.6806 | 0.9913 | 0.9896 | 0.9661 | 0.9991 | 0.7189 | 0.1514 |
| 5779 | 1.730403 | 0.6805 | 0.9897 | 0.9908 | 0.9662 | 0.9991 | 0.7188 | 0.1515 |
| 5780 | 1.730104 | 0.6843 | 0.9911 | 0.9948 | 0.9664 | 0.9991 | 0.7188 | 0.1515 |
| 5781 | 1.729805 | 0.6891 | 0.9939 | 0.9990 | 0.9666 | 0.9991 | 0.7187 | 0.1515 |
| 5782 | 1.729505 | 0.6810 | 0.9869 | 0.9942 | 0.9667 | 0.9991 | 0.7187 | 0.1515 |
| 5783 | 1.729206 | 0.6512 | 0.9449 | 0.9928 | 0.9669 | 0.9991 | 0.7186 | 0.1515 |
| 5784 | 1.728907 | 0.4472 | 0.6492 | 0.9922 | 0.9670 | 0.9991 | 0.7186 | 0.1516 |
| 5785 | 1.728608 | 0.4779 | 0.6958 | 0.9893 | 0.9672 | 0.9991 | 0.7185 | 0.1516 |
| 5786 | 1.728310 | 0.6669 | 0.9721 | 0.9880 | 0.9673 | 0.9991 | 0.7185 | 0.1516 |
| 5787 | 1.728011 | 0.6480 | 0.9370 | 0.9958 | 0.9675 | 0.9991 | 0.7184 | 0.1516 |
| 5788 | 1.727713 | 0.6861 | 0.9937 | 0.9942 | 0.9676 | 0.9991 | 0.7184 | 0.1516 |
| 5789 | 1.727414 | 0.6837 | 0.9944 | 0.9899 | 0.9678 | 0.9991 | 0.7183 | 0.1517 |
| 5790 | 1.727116 | 0.6468 | 0.9509 | 0.9793 | 0.9679 | 0.9991 | 0.7183 | 0.1517 |
| 5791 | 1.726817 | 0.6874 | 0.9935 | 0.9960 | 0.9681 | 0.9991 | 0.7182 | 0.1517 |
| 5792 | 1.726519 | 0.6786 | 0.9818 | 0.9949 | 0.9682 | 0.9991 | 0.7182 | 0.1517 |
| 5793 | 1.726221 | 0.5030 | 0.7326 | 0.9882 | 0.9683 | 0.9991 | 0.7181 | 0.1518 |
| 5794 | 1.725923 | 0.6739 | 0.9819 | 0.9877 | 0.9685 | 0.9991 | 0.7181 | 0.1518 |
| 5795 | 1.725626 | 0.6857 | 0.9910 | 0.9958 | 0.9686 | 0.9991 | 0.7180 | 0.1518 |
| 5796 | 1.725328 | 0.6772 | 0.9840 | 0.9903 | 0.9687 | 0.9991 | 0.7180 | 0.1518 |
| 5797 | 1.725030 | 0.6601 | 0.9603 | 0.9891 | 0.9689 | 0.9991 | 0.7179 | 0.1518 |
| 5798 | 1.724733 | 0.4222 | 0.6104 | 0.9953 | 0.9690 | 0.9991 | 0.7179 | 0.1519 |
| 5799 | 1.724435 | 0.2479 | 0.3596 | 0.9919 | 0.9691 | 0.9991 | 0.7178 | 0.1519 |
| 5800 | 1.724138 | 0.6401 | 0.9253 | 0.9953 | 0.9693 | 0.9991 | 0.7178 | 0.1519 |
| 5801 | 1.723841 | 0.6427 | 0.9336 | 0.9903 | 0.9694 | 0.9991 | 0.7177 | 0.1519 |
| 5802 | 1.723544 | 0.3397 | 0.4921 | 0.9928 | 0.9695 | 0.9991 | 0.7177 | 0.1519 |
| 5803 | 1.723247 | 0.6521 | 0.9475 | 0.9899 | 0.9697 | 0.9991 | 0.7176 | 0.1520 |
| 5804 | 1.722950 | 0.6593 | 0.9571 | 0.9908 | 0.9698 | 0.9991 | 0.7176 | 0.1520 |
| 5805 | 1.722653 | 0.6804 | 0.9895 | 0.9890 | 0.9700 | 0.9991 | 0.7175 | 0.1520 |
| 5806 | 1.722356 | 0.6751 | 0.9848 | 0.9858 | 0.9701 | 0.9991 | 0.7175 | 0.1520 |
| 5807 | 1.722060 | 0.6829 | 0.9866 | 0.9953 | 0.9702 | 0.9991 | 0.7174 | 0.1520 |
| 5808 | 1.721763 | 0.6591 | 0.9504 | 0.9973 | 0.9704 | 0.9991 | 0.7174 | 0.1521 |
| 5809 | 1.721467 | 0.3707 | 0.5365 | 0.9935 | 0.9705 | 0.9991 | 0.7173 | 0.1521 |
| 5810 | 1.721170 | 0.2944 | 0.4247 | 0.9966 | 0.9706 | 0.9991 | 0.7173 | 0.1521 |
| 5811 | 1.720874 | 0.6558 | 0.9471 | 0.9954 | 0.9707 | 0.9991 | 0.7172 | 0.1521 |
| 5812 | 1.720578 | 0.6786 | 0.9837 | 0.9917 | 0.9708 | 0.9991 | 0.7172 | 0.1521 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 5813 | 1.720282 | 0.6876 | 0.9907 | 0.9976 | 0.9710 | 0.9991 | 0.7171 | 0.1522 |
| 5814 | 1.719986 | 0.6278 | 0.9055 | 0.9965 | 0.9711 | 0.9991 | 0.7171 | 0.1522 |
| 5815 | 1.719690 | 0.6883 | 0.9917 | 0.9976 | 0.9712 | 0.9991 | 0.7170 | 0.1522 |
| 5816 | 1.719395 | 0.6930 | 0.9973 | 0.9987 | 0.9713 | 0.9991 | 0.7170 | 0.1522 |
| 5817 | 1.719099 | 0.6925 | 0.9967 | 0.9985 | 0.9714 | 0.9991 | 0.7169 | 0.1523 |
| 5818 | 1.718804 | 0.6879 | 0.9922 | 0.9964 | 0.9715 | 0.9991 | 0.7169 | 0.1523 |
| 5819 | 1.718508 | 0.6930 | 0.9979 | 0.9981 | 0.9716 | 0.9991 | 0.7168 | 0.1523 |
| 5820 | 1.718213 | 0.6720 | 0.9680 | 0.9978 | 0.9717 | 0.9991 | 0.7168 | 0.1523 |
| 5821 | 1.717918 | 0.6927 | 0.9966 | 0.9989 | 0.9718 | 0.9991 | 0.7167 | 0.1523 |
| 5822 | 1.717623 | 0.6936 | 0.9980 | 0.9986 | 0.9719 | 0.9991 | 0.7167 | 0.1524 |
| 5823 | 1.717328 | 0.6918 | 0.9970 | 0.9972 | 0.9719 | 0.9991 | 0.7166 | 0.1524 |
| 5824 | 1.717033 | 0.6815 | 0.9851 | 0.9941 | 0.9720 | 0.9991 | 0.7166 | 0.1524 |
| 5825 | 1.716738 | 0.6855 | 0.9853 | 0.9997 | 0.9721 | 0.9991 | 0.7165 | 0.1524 |
| 5826 | 1.716444 | 0.6696 | 0.9640 | 0.9981 | 0.9722 | 0.9991 | 0.7165 | 0.1524 |
| 5827 | 1.716149 | 0.3919 | 0.5632 | 0.9999 | 0.9723 | 0.9991 | 0.7164 | 0.1525 |
| 5828 | 1.715854 | 0.6703 | 0.9632 | 0.9999 | 0.9724 | 0.9991 | 0.7164 | 0.1525 |
| 5829 | 1.715560 | 0.6881 | 0.9890 | 0.9997 | 0.9725 | 0.9991 | 0.7163 | 0.1525 |
| 5830 | 1.715266 | 0.6821 | 0.9896 | 0.9903 | 0.9726 | 0.9991 | 0.7163 | 0.1525 |
| 5831 | 1.714972 | 0.6704 | 0.9635 | 0.9996 | 0.9727 | 0.9991 | 0.7162 | 0.1525 |
| 5832 | 1.714678 | 0.4918 | 0.7069 | 0.9994 | 0.9728 | 0.9991 | 0.7162 | 0.1526 |
| 5833 | 1.714384 | 0.3738 | 0.5372 | 0.9997 | 0.9729 | 0.9991 | 0.7161 | 0.1526 |
| 5834 | 1.714090 | 0.6603 | 0.9537 | 0.9945 | 0.9730 | 0.9991 | 0.7161 | 0.1526 |
| 5835 | 1.713796 | 0.5979 | 0.8678 | 0.9898 | 0.9731 | 0.9991 | 0.7160 | 0.1526 |
| 5836 | 1.713502 | 0.6844 | 0.9877 | 0.9953 | 0.9732 | 0.9991 | 0.7160 | 0.1526 |
| 5837 | 1.713209 | 0.6324 | 0.9121 | 0.9958 | 0.9733 | 0.9991 | 0.7159 | 0.1527 |
| 5838 | 1.712915 | 0.6865 | 0.9883 | 0.9977 | 0.9734 | 0.9991 | 0.7159 | 0.1527 |
| 5839 | 1.712622 | 0.6906 | 0.9963 | 0.9955 | 0.9735 | 0.9991 | 0.7159 | 0.1527 |
| 5840 | 1.712329 | 0.6628 | 0.9565 | 0.9953 | 0.9736 | 0.9991 | 0.7158 | 0.1527 |
| 5841 | 1.712036 | 0.6917 | 0.9980 | 0.9955 | 0.9737 | 0.9991 | 0.7158 | 0.1527 |
| 5842 | 1.711743 | 0.6939 | 0.9986 | 0.9980 | 0.9738 | 0.9991 | 0.7157 | 0.1528 |
| 5843 | 1.711450 | 0.6908 | 0.9961 | 0.9961 | 0.9738 | 0.9991 | 0.7157 | 0.1528 |
| 5844 | 1.711157 | 0.6912 | 0.9978 | 0.9948 | 0.9739 | 0.9991 | 0.7156 | 0.1528 |
| 5845 | 1.710864 | 0.6828 | 0.9829 | 0.9977 | 0.9740 | 0.9991 | 0.7156 | 0.1528 |
| 5846 | 1.710571 | 0.5732 | 0.8377 | 0.9827 | 0.9740 | 0.9991 | 0.7155 | 0.1528 |
| 5847 | 1.710279 | 0.6896 | 0.9932 | 0.9972 | 0.9741 | 0.9991 | 0.7155 | 0.1529 |
| 5848 | 1.709986 | 0.6904 | 0.9969 | 0.9947 | 0.9742 | 0.9991 | 0.7154 | 0.1529 |
| 5849 | 1.709694 | 0.6885 | 0.9963 | 0.9925 | 0.9743 | 0.9991 | 0.7154 | 0.1529 |
| 5850 | 1.709402 | 0.6862 | 0.9933 | 0.9921 | 0.9743 | 0.9991 | 0.7153 | 0.1529 |
| 5851 | 1.709110 | 0.6781 | 0.9765 | 0.9973 | 0.9744 | 0.9991 | 0.7153 | 0.1530 |
| 5852 | 1.708817 | 0.4404 | 0.6393 | 0.9894 | 0.9745 | 0.9991 | 0.7152 | 0.1530 |
| 5853 | 1.708526 | 0.3978 | 0.5796 | 0.9857 | 0.9745 | 0.9991 | 0.7152 | 0.1530 |
| 5854 | 1.708234 | 0.6572 | 0.9606 | 0.9826 | 0.9746 | 0.9991 | 0.7151 | 0.1530 |
| 5855 | 1.707942 | 0.6723 | 0.9790 | 0.9862 | 0.9746 | 0.9991 | 0.7151 | 0.1530 |
| 5856 | 1.707650 | 0.5393 | 0.7821 | 0.9902 | 0.9747 | 0.9991 | 0.7150 | 0.1531 |
| 5857 | 1.707359 | 0.6799 | 0.9866 | 0.9897 | 0.9748 | 0.9991 | 0.7150 | 0.1531 |
| 5858 | 1.707067 | 0.6853 | 0.9897 | 0.9944 | 0.9748 | 0.9991 | 0.7149 | 0.1531 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 5859 | 1.706776 | 0.5445 | 0.8008 | 0.9766 | 0.9749 | 0.9991 | 0.7149 | 0.1531 |
| 5860 | 1.706485 | 0.6811 | 0.9885 | 0.9896 | 0.9750 | 0.9991 | 0.7148 | 0.1531 |
| 5861 | 1.706193 | 0.5984 | 0.8686 | 0.9895 | 0.9750 | 0.9991 | 0.7148 | 0.1532 |
| 5862 | 1.705902 | 0.6899 | 0.9946 | 0.9961 | 0.9751 | 0.9991 | 0.7147 | 0.1532 |
| 5863 | 1.705611 | 0.6769 | 0.9841 | 0.9879 | 0.9751 | 0.9991 | 0.7147 | 0.1532 |
| 5864 | 1.705321 | 0.6425 | 0.9458 | 0.9757 | 0.9752 | 0.9991 | 0.7146 | 0.1532 |
| 5865 | 1.705030 | 0.6836 | 0.9896 | 0.9922 | 0.9753 | 0.9991 | 0.7146 | 0.1532 |
| 5866 | 1.704739 | 0.6843 | 0.9855 | 0.9972 | 0.9753 | 0.9991 | 0.7145 | 0.1533 |
| 5867 | 1.704449 | 0.6765 | 0.9825 | 0.9889 | 0.9754 | 0.9991 | 0.7145 | 0.1533 |
| 5868 | 1.704158 | 0.6873 | 0.9973 | 0.9898 | 0.9754 | 0.9991 | 0.7144 | 0.1533 |
| 5869 | 1.703868 | 0.6769 | 0.9776 | 0.9945 | 0.9755 | 0.9991 | 0.7144 | 0.1533 |
| 5870 | 1.703578 | 0.5865 | 0.8525 | 0.9881 | 0.9756 | 0.9991 | 0.7144 | 0.1533 |
| 5871 | 1.703287 | 0.6852 | 0.9929 | 0.9912 | 0.9756 | 0.9991 | 0.7143 | 0.1534 |
| 5872 | 1.702997 | 0.6892 | 0.9965 | 0.9934 | 0.9757 | 0.9991 | 0.7143 | 0.1534 |
| 5873 | 1.702707 | 0.6808 | 0.9988 | 0.9790 | 0.9757 | 0.9991 | 0.7142 | 0.1534 |
| 5874 | 1.702417 | 0.6900 | 0.9989 | 0.9922 | 0.9758 | 0.9991 | 0.7142 | 0.1534 |
| 5875 | 1.702128 | 0.6905 | 0.9987 | 0.9930 | 0.9758 | 0.9991 | 0.7141 | 0.1534 |
| 5876 | 1.701838 | 0.6901 | 0.9979 | 0.9934 | 0.9759 | 0.9991 | 0.7141 | 0.1535 |
| 5877 | 1.701548 | 0.6887 | 0.9931 | 0.9961 | 0.9759 | 0.9991 | 0.7140 | 0.1535 |
| 5878 | 1.701259 | 0.6792 | 0.9807 | 0.9949 | 0.9760 | 0.9991 | 0.7140 | 0.1535 |
| 5879 | 1.700970 | 0.4573 | 0.6645 | 0.9887 | 0.9760 | 0.9991 | 0.7139 | 0.1535 |
| 5880 | 1.700680 | 0.6750 | 0.9790 | 0.9904 | 0.9761 | 0.9991 | 0.7139 | 0.1535 |
| 5881 | 1.700391 | 0.6794 | 0.9832 | 0.9926 | 0.9761 | 0.9991 | 0.7138 | 0.1536 |
| 5882 | 1.700102 | 0.6865 | 0.9960 | 0.9901 | 0.9762 | 0.9991 | 0.7138 | 0.1536 |
| 5883 | 1.699813 | 0.6821 | 0.9894 | 0.9904 | 0.9762 | 0.9991 | 0.7137 | 0.1536 |
| 5884 | 1.699524 | 0.5635 | 0.8123 | 0.9966 | 0.9763 | 0.9991 | 0.7137 | 0.1536 |
| 5885 | 1.699235 | 0.6878 | 0.9894 | 0.9987 | 0.9764 | 0.9991 | 0.7136 | 0.1536 |
| 5886 | 1.698947 | 0.6884 | 0.9929 | 0.9960 | 0.9764 | 0.9991 | 0.7136 | 0.1537 |
| 5887 | 1.698658 | 0.6915 | 0.9966 | 0.9969 | 0.9765 | 0.9991 | 0.7135 | 0.1537 |
| 5888 | 1.698370 | 0.6922 | 0.9984 | 0.9960 | 0.9765 | 0.9991 | 0.7135 | 0.1537 |
| 5889 | 1.698081 | 0.6920 | 0.9979 | 0.9962 | 0.9766 | 0.9991 | 0.7134 | 0.1537 |
| 5890 | 1.697793 | 0.6876 | 0.9899 | 0.9979 | 0.9766 | 0.9991 | 0.7134 | 0.1537 |
| 5891 | 1.697505 | 0.6687 | 0.9844 | 0.9759 | 0.9767 | 0.9991 | 0.7133 | 0.1538 |
| 5892 | 1.697217 | 0.4232 | 0.6211 | 0.9790 | 0.9767 | 0.9991 | 0.7133 | 0.1538 |
| 5893 | 1.696929 | 0.5845 | 0.8420 | 0.9973 | 0.9768 | 0.9991 | 0.7133 | 0.1538 |
| 5894 | 1.696641 | 0.5636 | 0.8132 | 0.9958 | 0.9768 | 0.9991 | 0.7132 | 0.1538 |
| 5895 | 1.696353 | 0.6880 | 0.9894 | 0.9991 | 0.9768 | 0.9991 | 0.7132 | 0.1538 |
| 5896 | 1.696065 | 0.6936 | 0.9972 | 0.9994 | 0.9769 | 0.9991 | 0.7131 | 0.1539 |
| 5897 | 1.695778 | 0.6945 | 0.9984 | 0.9995 | 0.9769 | 0.9991 | 0.7131 | 0.1539 |
| 5898 | 1.695490 | 0.6911 | 0.9945 | 0.9986 | 0.9770 | 0.9990 | 0.7130 | 0.1539 |
| 5899 | 1.695203 | 0.6932 | 0.9991 | 0.9970 | 0.9770 | 0.9990 | 0.7130 | 0.1539 |
| 5900 | 1.694915 | 0.6889 | 0.9991 | 0.9909 | 0.9771 | 0.9990 | 0.7129 | 0.1539 |
| 5901 | 1.694628 | 0.6909 | 0.9978 | 0.9951 | 0.9771 | 0.9990 | 0.7129 | 0.1540 |
| 5902 | 1.694341 | 0.6660 | 0.9586 | 0.9985 | 0.9772 | 0.9990 | 0.7128 | 0.1540 |
| 5903 | 1.694054 | 0.6077 | 0.9129 | 0.9567 | 0.9772 | 0.9990 | 0.7128 | 0.1540 |
| 5904 | 1.693767 | 0.6904 | 0.9945 | 0.9977 | 0.9772 | 0.9990 | 0.7127 | 0.1540 |

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|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 5905 | 1.693480 | 0.6941 | 0.9991 | 0.9985 | 0.9773 | 0.9990 | 0.7127 | 0.1540 |
| 5906 | 1.693193 | 0.6937 | 0.9993 | 0.9977 | 0.9773 | 0.9990 | 0.7126 | 0.1541 |
| 5907 | 1.692907 | 0.6947 | 0.9992 | 0.9993 | 0.9774 | 0.9990 | 0.7126 | 0.1541 |
| 5908 | 1.692620 | 0.6927 | 0.9982 | 0.9973 | 0.9774 | 0.9990 | 0.7125 | 0.1541 |
| 5909 | 1.692334 | 0.6475 | 0.9394 | 0.9907 | 0.9774 | 0.9990 | 0.7125 | 0.1541 |
| 5910 | 1.692047 | 0.6814 | 0.9863 | 0.9930 | 0.9775 | 0.9990 | 0.7124 | 0.1541 |
| 5911 | 1.691761 | 0.6894 | 0.9919 | 0.9990 | 0.9775 | 0.9990 | 0.7124 | 0.1542 |
| 5912 | 1.691475 | 0.5823 | 0.8401 | 0.9963 | 0.9776 | 0.9990 | 0.7124 | 0.1542 |
| 5913 | 1.691189 | 0.6858 | 0.9878 | 0.9980 | 0.9776 | 0.9990 | 0.7123 | 0.1542 |
| 5914 | 1.690903 | 0.5974 | 0.8603 | 0.9982 | 0.9776 | 0.9990 | 0.7123 | 0.1542 |
| 5915 | 1.690617 | 0.4838 | 0.7300 | 0.9527 | 0.9777 | 0.9990 | 0.7122 | 0.1542 |
| 5916 | 1.690331 | 0.6867 | 0.9887 | 0.9984 | 0.9777 | 0.9990 | 0.7122 | 0.1543 |
| 5917 | 1.690046 | 0.6930 | 0.9969 | 0.9994 | 0.9778 | 0.9990 | 0.7121 | 0.1543 |
| 5918 | 1.689760 | 0.6835 | 0.9867 | 0.9959 | 0.9778 | 0.9990 | 0.7121 | 0.1543 |
| 5919 | 1.689475 | 0.6468 | 0.9302 | 0.9997 | 0.9778 | 0.9990 | 0.7120 | 0.1543 |
| 5920 | 1.689189 | 0.6904 | 0.9950 | 0.9976 | 0.9779 | 0.9990 | 0.7120 | 0.1543 |
| 5921 | 1.688904 | 0.6909 | 0.9992 | 0.9942 | 0.9779 | 0.9990 | 0.7119 | 0.1544 |
| 5922 | 1.688619 | 0.6941 | 0.9982 | 0.9997 | 0.9780 | 0.9990 | 0.7119 | 0.1544 |
| 5923 | 1.688334 | 0.6915 | 0.9950 | 0.9992 | 0.9780 | 0.9990 | 0.7118 | 0.1544 |
| 5924 | 1.688049 | 0.6928 | 0.9993 | 0.9969 | 0.9780 | 0.9990 | 0.7118 | 0.1544 |
| 5925 | 1.687764 | 0.6875 | 0.9918 | 0.9967 | 0.9781 | 0.9990 | 0.7117 | 0.1544 |
| 5926 | 1.687479 | 0.6775 | 0.9948 | 0.9792 | 0.9781 | 0.9990 | 0.7117 | 0.1545 |
| 5927 | 1.687194 | 0.6011 | 0.8994 | 0.9610 | 0.9782 | 0.9990 | 0.7116 | 0.1545 |
| 5928 | 1.686910 | 0.6926 | 0.9974 | 0.9985 | 0.9782 | 0.9990 | 0.7116 | 0.1545 |
| 5929 | 1.686625 | 0.6934 | 0.9993 | 0.9979 | 0.9782 | 0.9990 | 0.7116 | 0.1545 |
| 5930 | 1.686341 | 0.6932 | 0.9991 | 0.9978 | 0.9783 | 0.9990 | 0.7115 | 0.1545 |
| 5931 | 1.686056 | 0.6780 | 0.9757 | 0.9993 | 0.9783 | 0.9990 | 0.7115 | 0.1546 |
| 5932 | 1.685772 | 0.6928 | 0.9980 | 0.9985 | 0.9783 | 0.9990 | 0.7114 | 0.1546 |
| 5933 | 1.685488 | 0.6934 | 0.9996 | 0.9978 | 0.9784 | 0.9990 | 0.7114 | 0.1546 |
| 5934 | 1.685204 | 0.6926 | 0.9995 | 0.9967 | 0.9784 | 0.9990 | 0.7113 | 0.1546 |
| 5935 | 1.684920 | 0.6925 | 0.9991 | 0.9969 | 0.9784 | 0.9990 | 0.7113 | 0.1546 |
| 5936 | 1.684636 | 0.6928 | 0.9971 | 0.9993 | 0.9785 | 0.9990 | 0.7112 | 0.1547 |
| 5937 | 1.684352 | 0.6412 | 0.9252 | 0.9969 | 0.9785 | 0.9990 | 0.7112 | 0.1547 |
| 5938 | 1.684069 | 0.5433 | 0.8487 | 0.9209 | 0.9785 | 0.9990 | 0.7111 | 0.1547 |
| 5939 | 1.683785 | 0.6883 | 0.9944 | 0.9957 | 0.9786 | 0.9990 | 0.7111 | 0.1547 |
| 5940 | 1.683502 | 0.6933 | 0.9984 | 0.9989 | 0.9786 | 0.9990 | 0.7110 | 0.1547 |
| 5941 | 1.683218 | 0.6764 | 0.9734 | 0.9996 | 0.9786 | 0.9990 | 0.7110 | 0.1548 |
| 5942 | 1.682935 | 0.6934 | 0.9993 | 0.9983 | 0.9786 | 0.9990 | 0.7109 | 0.1548 |
| 5943 | 1.682652 | 0.6941 | 0.9997 | 0.9989 | 0.9787 | 0.9990 | 0.7109 | 0.1548 |
| 5944 | 1.682369 | 0.6942 | 0.9998 | 0.9991 | 0.9787 | 0.9990 | 0.7109 | 0.1548 |
| 5945 | 1.682086 | 0.6943 | 0.9998 | 0.9991 | 0.9787 | 0.9990 | 0.7108 | 0.1548 |
| 5946 | 1.681803 | 0.6932 | 0.9996 | 0.9978 | 0.9788 | 0.9990 | 0.7108 | 0.1549 |
| 5947 | 1.681520 | 0.6795 | 0.9824 | 0.9953 | 0.9788 | 0.9990 | 0.7107 | 0.1549 |
| 5948 | 1.681237 | 0.6937 | 0.9996 | 0.9987 | 0.9788 | 0.9990 | 0.7107 | 0.1549 |
| 5949 | 1.680955 | 0.6893 | 0.9944 | 0.9975 | 0.9789 | 0.9990 | 0.7106 | 0.1549 |
| 5950 | 1.680672 | 0.6597 | 0.9979 | 0.9513 | 0.9789 | 0.9990 | 0.7106 | 0.1549 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 5951 | 1.680390 | 0.6929 | 0.9986 | 0.9985 | 0.9789 | 0.9990 | 0.7105 | 0.1550 |
| 5952 | 1.680108 | 0.6621 | 0.9532 | 0.9996 | 0.9790 | 0.9990 | 0.7105 | 0.1550 |
| 5953 | 1.679825 | 0.6936 | 0.9984 | 0.9998 | 0.9790 | 0.9990 | 0.7104 | 0.1550 |
| 5954 | 1.679543 | 0.6852 | 0.9864 | 0.9998 | 0.9790 | 0.9990 | 0.7104 | 0.1550 |
| 5955 | 1.679261 | 0.6937 | 0.9994 | 0.9991 | 0.9790 | 0.9990 | 0.7103 | 0.1550 |
| 5956 | 1.678979 | 0.6941 | 0.9992 | 0.9998 | 0.9791 | 0.9990 | 0.7103 | 0.1551 |
| 5957 | 1.678697 | 0.6917 | 0.9969 | 0.9988 | 0.9791 | 0.9990 | 0.7102 | 0.1551 |
| 5958 | 1.678416 | 0.6305 | 0.9083 | 0.9992 | 0.9791 | 0.9990 | 0.7102 | 0.1551 |
| 5959 | 1.678134 | 0.6907 | 0.9948 | 0.9995 | 0.9791 | 0.9990 | 0.7102 | 0.1551 |
| 5960 | 1.677852 | 0.6653 | 0.9609 | 0.9967 | 0.9792 | 0.9990 | 0.7101 | 0.1551 |
| 5961 | 1.677571 | 0.6508 | 0.9980 | 0.9387 | 0.9792 | 0.9990 | 0.7101 | 0.1552 |
| 5962 | 1.677290 | 0.6744 | 0.9751 | 0.9957 | 0.9792 | 0.9990 | 0.7100 | 0.1552 |
| 5963 | 1.677008 | 0.6923 | 0.9982 | 0.9986 | 0.9792 | 0.9990 | 0.7100 | 0.1552 |
| 5964 | 1.676727 | 0.6563 | 0.9453 | 0.9997 | 0.9793 | 0.9990 | 0.7099 | 0.1552 |
| 5965 | 1.676446 | 0.6934 | 0.9987 | 0.9997 | 0.9793 | 0.9990 | 0.7099 | 0.1552 |
| 5966 | 1.676165 | 0.6775 | 0.9760 | 0.9996 | 0.9793 | 0.9990 | 0.7098 | 0.1553 |
| 5967 | 1.675884 | 0.6859 | 0.9880 | 0.9998 | 0.9793 | 0.9990 | 0.7098 | 0.1553 |
| 5968 | 1.675603 | 0.6331 | 0.9126 | 0.9991 | 0.9794 | 0.9990 | 0.7097 | 0.1553 |
| 5969 | 1.675322 | 0.6913 | 0.9970 | 0.9986 | 0.9794 | 0.9990 | 0.7097 | 0.1553 |
| 5970 | 1.675042 | 0.6744 | 0.9717 | 0.9996 | 0.9794 | 0.9990 | 0.7096 | 0.1553 |
| 5971 | 1.674761 | 0.6927 | 0.9992 | 0.9985 | 0.9794 | 0.9990 | 0.7096 | 0.1553 |
| 5972 | 1.674481 | 0.6617 | 0.9993 | 0.9536 | 0.9795 | 0.9990 | 0.7096 | 0.1554 |
| 5973 | 1.674201 | 0.6800 | 0.9809 | 0.9985 | 0.9795 | 0.9990 | 0.7095 | 0.1554 |
| 5974 | 1.673920 | 0.6730 | 0.9706 | 0.9988 | 0.9795 | 0.9990 | 0.7095 | 0.1554 |
| 5975 | 1.673640 | 0.6923 | 0.9986 | 0.9986 | 0.9795 | 0.9990 | 0.7094 | 0.1554 |
| 5976 | 1.673360 | 0.6787 | 0.9787 | 0.9990 | 0.9795 | 0.9990 | 0.7094 | 0.1554 |
| 5977 | 1.673080 | 0.6878 | 0.9918 | 0.9991 | 0.9796 | 0.9990 | 0.7093 | 0.1555 |
| 5978 | 1.672800 | 0.6930 | 0.9996 | 0.9988 | 0.9796 | 0.9990 | 0.7093 | 0.1555 |
| 5979 | 1.672520 | 0.6919 | 0.9981 | 0.9987 | 0.9796 | 0.9990 | 0.7092 | 0.1555 |
| 5980 | 1.672241 | 0.6929 | 0.9996 | 0.9987 | 0.9796 | 0.9990 | 0.7092 | 0.1555 |
| 5981 | 1.671961 | 0.6925 | 0.9988 | 0.9990 | 0.9796 | 0.9990 | 0.7091 | 0.1555 |
| 5982 | 1.671682 | 0.6594 | 0.9511 | 0.9991 | 0.9797 | 0.9990 | 0.7091 | 0.1556 |
| 5983 | 1.671402 | 0.6815 | 0.9986 | 0.9835 | 0.9797 | 0.9990 | 0.7090 | 0.1556 |
| 5984 | 1.671123 | 0.6841 | 0.9881 | 0.9977 | 0.9797 | 0.9990 | 0.7090 | 0.1556 |
| 5985 | 1.670844 | 0.6914 | 0.9987 | 0.9978 | 0.9797 | 0.9990 | 0.7090 | 0.1556 |
| 5986 | 1.670565 | 0.6605 | 0.9554 | 0.9965 | 0.9797 | 0.9990 | 0.7089 | 0.1556 |
| 5987 | 1.670286 | 0.6877 | 0.9937 | 0.9975 | 0.9798 | 0.9990 | 0.7089 | 0.1557 |
| 5988 | 1.670007 | 0.6930 | 0.9993 | 0.9995 | 0.9798 | 0.9990 | 0.7088 | 0.1557 |
| 5989 | 1.669728 | 0.6898 | 0.9985 | 0.9958 | 0.9798 | 0.9990 | 0.7088 | 0.1557 |
| 5990 | 1.669449 | 0.6635 | 0.9599 | 0.9965 | 0.9798 | 0.9990 | 0.7087 | 0.1557 |
| 5991 | 1.669170 | 0.6788 | 0.9815 | 0.9970 | 0.9798 | 0.9990 | 0.7087 | 0.1557 |
| 5992 | 1.668892 | 0.6372 | 0.9191 | 0.9994 | 0.9799 | 0.9990 | 0.7086 | 0.1558 |
| 5993 | 1.668613 | 0.6859 | 0.9982 | 0.9907 | 0.9799 | 0.9990 | 0.7086 | 0.1558 |
| 5994 | 1.668335 | 0.6863 | 0.9995 | 0.9899 | 0.9799 | 0.9990 | 0.7085 | 0.1558 |
| 5995 | 1.668057 | 0.6831 | 0.9997 | 0.9852 | 0.9799 | 0.9990 | 0.7085 | 0.1558 |
| 5996 | 1.667779 | 0.6887 | 0.9994 | 0.9937 | 0.9799 | 0.9990 | 0.7085 | 0.1558 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 5997 | 1.667500 | 0.6840 | 0.9996 | 0.9866 | 0.9800 | 0.9990 | 0.7084 | 0.1559 |
| 5998 | 1.667222 | 0.6579 | 0.9958 | 0.9527 | 0.9800 | 0.9990 | 0.7084 | 0.1559 |
| 5999 | 1.666944 | 0.6740 | 0.9993 | 0.9727 | 0.9800 | 0.9990 | 0.7083 | 0.1559 |
| 6000 | 1.666667 | 0.6640 | 0.9963 | 0.9611 | 0.9800 | 0.9990 | 0.7083 | 0.1559 |
| 6001 | 1.666389 | 0.6071 | 0.9401 | 0.9314 | 0.9800 | 0.9990 | 0.7082 | 0.1559 |
| 6002 | 1.666111 | 0.6148 | 0.9697 | 0.9144 | 0.9801 | 0.9990 | 0.7082 | 0.1560 |
| 6003 | 1.665834 | 0.5552 | 0.9680 | 0.8272 | 0.9801 | 0.9990 | 0.7081 | 0.1560 |
| 6004 | 1.665556 | 0.5819 | 0.9928 | 0.8455 | 0.9801 | 0.9990 | 0.7081 | 0.1560 |
| 6005 | 1.665279 | 0.6560 | 0.9931 | 0.9529 | 0.9801 | 0.9990 | 0.7080 | 0.1560 |
| 6006 | 1.665002 | 0.6894 | 0.9992 | 0.9953 | 0.9801 | 0.9990 | 0.7080 | 0.1560 |
| 6007 | 1.664724 | 0.6829 | 0.9870 | 0.9981 | 0.9801 | 0.9990 | 0.7079 | 0.1560 |
| 6008 | 1.664447 | 0.6915 | 0.9993 | 0.9983 | 0.9802 | 0.9990 | 0.7079 | 0.1561 |
| 6009 | 1.664170 | 0.6914 | 0.9990 | 0.9986 | 0.9802 | 0.9990 | 0.7079 | 0.1561 |
| 6010 | 1.663894 | 0.6804 | 0.9844 | 0.9972 | 0.9802 | 0.9990 | 0.7078 | 0.1561 |
| 6011 | 1.663617 | 0.6429 | 0.9287 | 0.9989 | 0.9802 | 0.9990 | 0.7078 | 0.1561 |
| 6012 | 1.663340 | 0.6900 | 0.9975 | 0.9981 | 0.9802 | 0.9990 | 0.7077 | 0.1561 |
| 6013 | 1.663063 | 0.6870 | 0.9926 | 0.9987 | 0.9803 | 0.9990 | 0.7077 | 0.1562 |
| 6014 | 1.662787 | 0.6906 | 0.9987 | 0.9979 | 0.9803 | 0.9990 | 0.7076 | 0.1562 |
| 6015 | 1.662510 | 0.6815 | 0.9876 | 0.9958 | 0.9803 | 0.9990 | 0.7076 | 0.1562 |
| 6016 | 1.662234 | 0.6350 | 0.9356 | 0.9795 | 0.9803 | 0.9990 | 0.7075 | 0.1562 |
| 6017 | 1.661958 | 0.6682 | 0.9657 | 0.9986 | 0.9803 | 0.9990 | 0.7075 | 0.1562 |
| 6018 | 1.661682 | 0.6753 | 0.9757 | 0.9990 | 0.9803 | 0.9990 | 0.7075 | 0.1563 |
| 6019 | 1.661406 | 0.6261 | 0.9050 | 0.9985 | 0.9804 | 0.9990 | 0.7074 | 0.1563 |
| 6020 | 1.661130 | 0.6897 | 0.9964 | 0.9991 | 0.9804 | 0.9990 | 0.7074 | 0.1563 |
| 6021 | 1.660854 | 0.6916 | 0.9991 | 0.9992 | 0.9804 | 0.9990 | 0.7073 | 0.1563 |
| 6022 | 1.660578 | 0.6921 | 0.9995 | 0.9997 | 0.9804 | 0.9990 | 0.7073 | 0.1563 |
| 6023 | 1.660302 | 0.6917 | 0.9990 | 0.9996 | 0.9804 | 0.9990 | 0.7072 | 0.1564 |
| 6024 | 1.660027 | 0.6784 | 0.9811 | 0.9983 | 0.9804 | 0.9990 | 0.7072 | 0.1564 |
| 6025 | 1.659751 | 0.6857 | 0.9935 | 0.9966 | 0.9805 | 0.9990 | 0.7071 | 0.1564 |
| 6026 | 1.659476 | 0.6783 | 0.9996 | 0.9798 | 0.9805 | 0.9990 | 0.7071 | 0.1564 |
| 6027 | 1.659200 | 0.6912 | 0.9997 | 0.9984 | 0.9805 | 0.9990 | 0.7070 | 0.1564 |
| 6028 | 1.658925 | 0.6904 | 0.9995 | 0.9974 | 0.9805 | 0.9990 | 0.7070 | 0.1565 |
| 6029 | 1.658650 | 0.6790 | 0.9834 | 0.9971 | 0.9805 | 0.9990 | 0.7070 | 0.1565 |
| 6030 | 1.658375 | 0.6911 | 0.9992 | 0.9989 | 0.9805 | 0.9990 | 0.7069 | 0.1565 |
| 6031 | 1.658100 | 0.6873 | 0.9945 | 0.9981 | 0.9806 | 0.9990 | 0.7069 | 0.1565 |
| 6032 | 1.657825 | 0.6644 | 0.9605 | 0.9990 | 0.9806 | 0.9990 | 0.7068 | 0.1565 |
| 6033 | 1.657550 | 0.6895 | 0.9974 | 0.9986 | 0.9806 | 0.9990 | 0.7068 | 0.1565 |
| 6034 | 1.657275 | 0.6670 | 0.9665 | 0.9968 | 0.9806 | 0.9990 | 0.7067 | 0.1566 |
| 6035 | 1.657001 | 0.6697 | 0.9709 | 0.9965 | 0.9806 | 0.9990 | 0.7067 | 0.1566 |
| 6036 | 1.656726 | 0.6876 | 0.9980 | 0.9952 | 0.9807 | 0.9990 | 0.7066 | 0.1566 |
| 6037 | 1.656452 | 0.6490 | 0.9829 | 0.9539 | 0.9807 | 0.9990 | 0.7066 | 0.1566 |
| 6038 | 1.656178 | 0.6742 | 0.9803 | 0.9936 | 0.9807 | 0.9990 | 0.7065 | 0.1566 |
| 6039 | 1.655903 | 0.6626 | 0.9631 | 0.9940 | 0.9807 | 0.9990 | 0.7065 | 0.1567 |
| 6040 | 1.655629 | 0.6840 | 0.9967 | 0.9916 | 0.9807 | 0.9990 | 0.7065 | 0.1567 |
| 6041 | 1.655355 | 0.6851 | 0.9988 | 0.9911 | 0.9807 | 0.9990 | 0.7064 | 0.1567 |
| 6042 | 1.655081 | 0.6684 | 0.9722 | 0.9933 | 0.9808 | 0.9990 | 0.7064 | 0.1567 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 6043 | 1.654807 | 0.6813 | 0.9888 | 0.9956 | 0.9808 | 0.9990 | 0.7063 | 0.1567 |
| 6044 | 1.654533 | 0.6887 | 0.9993 | 0.9959 | 0.9808 | 0.9990 | 0.7063 | 0.1568 |
| 6045 | 1.654260 | 0.6901 | 0.9994 | 0.9979 | 0.9808 | 0.9990 | 0.7062 | 0.1568 |
| 6046 | 1.653986 | 0.6864 | 0.9990 | 0.9930 | 0.9808 | 0.9990 | 0.7062 | 0.1568 |
| 6047 | 1.653713 | 0.6180 | 0.9924 | 0.9001 | 0.9809 | 0.9989 | 0.7061 | 0.1568 |
| 6048 | 1.653439 | 0.6307 | 0.9185 | 0.9924 | 0.9809 | 0.9989 | 0.7061 | 0.1568 |
| 6049 | 1.653166 | 0.6830 | 0.9892 | 0.9981 | 0.9809 | 0.9989 | 0.7061 | 0.1569 |
| 6050 | 1.652893 | 0.6868 | 0.9985 | 0.9942 | 0.9809 | 0.9989 | 0.7060 | 0.1569 |
| 6051 | 1.652619 | 0.6860 | 0.9982 | 0.9934 | 0.9809 | 0.9989 | 0.7060 | 0.1569 |
| 6052 | 1.652346 | 0.6780 | 0.9809 | 0.9992 | 0.9810 | 0.9989 | 0.7059 | 0.1569 |
| 6053 | 1.652073 | 0.6242 | 0.9091 | 0.9926 | 0.9810 | 0.9989 | 0.7059 | 0.1569 |
| 6054 | 1.651800 | 0.6874 | 0.9956 | 0.9982 | 0.9810 | 0.9989 | 0.7058 | 0.1569 |
| 6055 | 1.651528 | 0.6822 | 0.9990 | 0.9873 | 0.9810 | 0.9989 | 0.7058 | 0.1570 |
| 6056 | 1.651255 | 0.6855 | 0.9995 | 0.9917 | 0.9810 | 0.9989 | 0.7057 | 0.1570 |
| 6057 | 1.650982 | 0.6002 | 0.9994 | 0.8684 | 0.9810 | 0.9989 | 0.7057 | 0.1570 |
| 6058 | 1.650710 | 0.6731 | 0.9920 | 0.9811 | 0.9811 | 0.9989 | 0.7057 | 0.1570 |
| 6059 | 1.650437 | 0.6716 | 0.9769 | 0.9942 | 0.9811 | 0.9989 | 0.7056 | 0.1570 |
| 6060 | 1.650165 | 0.6817 | 0.9990 | 0.9867 | 0.9811 | 0.9989 | 0.7056 | 0.1571 |
| 6061 | 1.649893 | 0.6891 | 0.9978 | 0.9987 | 0.9811 | 0.9989 | 0.7055 | 0.1571 |
| 6062 | 1.649621 | 0.6662 | 0.9793 | 0.9839 | 0.9811 | 0.9989 | 0.7055 | 0.1571 |
| 6063 | 1.649349 | 0.6763 | 0.9988 | 0.9794 | 0.9812 | 0.9989 | 0.7054 | 0.1571 |
| 6064 | 1.649077 | 0.6770 | 0.9853 | 0.9939 | 0.9812 | 0.9989 | 0.7054 | 0.1571 |
| 6065 | 1.648805 | 0.6804 | 0.9978 | 0.9863 | 0.9812 | 0.9989 | 0.7053 | 0.1572 |
| 6066 | 1.648533 | 0.6675 | 0.9873 | 0.9780 | 0.9812 | 0.9989 | 0.7053 | 0.1572 |
| 6067 | 1.648261 | 0.6214 | 0.9991 | 0.8997 | 0.9812 | 0.9989 | 0.7053 | 0.1572 |
| 6068 | 1.647989 | 0.6750 | 0.9929 | 0.9835 | 0.9812 | 0.9989 | 0.7052 | 0.1572 |
| 6069 | 1.647718 | 0.6831 | 0.9920 | 0.9962 | 0.9813 | 0.9989 | 0.7052 | 0.1572 |
| 6070 | 1.647446 | 0.6830 | 0.9997 | 0.9884 | 0.9813 | 0.9989 | 0.7051 | 0.1573 |
| 6071 | 1.647175 | 0.6856 | 0.9997 | 0.9922 | 0.9813 | 0.9989 | 0.7051 | 0.1573 |
| 6072 | 1.646904 | 0.6863 | 0.9944 | 0.9986 | 0.9813 | 0.9989 | 0.7050 | 0.1573 |
| 6073 | 1.646633 | 0.6863 | 0.9990 | 0.9941 | 0.9813 | 0.9989 | 0.7050 | 0.1573 |
| 6074 | 1.646362 | 0.6767 | 0.9825 | 0.9966 | 0.9814 | 0.9989 | 0.7049 | 0.1573 |
| 6075 | 1.646091 | 0.6625 | 0.9619 | 0.9968 | 0.9814 | 0.9989 | 0.7049 | 0.1573 |
| 6076 | 1.645820 | 0.6845 | 0.9968 | 0.9937 | 0.9814 | 0.9989 | 0.7049 | 0.1574 |
| 6077 | 1.645549 | 0.5661 | 0.9702 | 0.8445 | 0.9814 | 0.9989 | 0.7048 | 0.1574 |
| 6078 | 1.645278 | 0.6611 | 0.9658 | 0.9908 | 0.9814 | 0.9989 | 0.7048 | 0.1574 |
| 6079 | 1.645007 | 0.6886 | 0.9982 | 0.9985 | 0.9815 | 0.9989 | 0.7047 | 0.1574 |
| 6080 | 1.644737 | 0.6840 | 0.9972 | 0.9927 | 0.9815 | 0.9989 | 0.7047 | 0.1574 |
| 6081 | 1.644466 | 0.6843 | 0.9997 | 0.9908 | 0.9815 | 0.9989 | 0.7046 | 0.1575 |
| 6082 | 1.644196 | 0.6899 | 0.9999 | 0.9989 | 0.9815 | 0.9989 | 0.7046 | 0.1575 |
| 6083 | 1.643926 | 0.6826 | 0.9999 | 0.9882 | 0.9815 | 0.9989 | 0.7045 | 0.1575 |
| 6084 | 1.643655 | 0.6812 | 0.9999 | 0.9863 | 0.9815 | 0.9989 | 0.7045 | 0.1575 |
| 6085 | 1.643385 | 0.6873 | 0.9995 | 0.9956 | 0.9816 | 0.9989 | 0.7045 | 0.1575 |
| 6086 | 1.643115 | 0.6788 | 0.9999 | 0.9829 | 0.9816 | 0.9989 | 0.7044 | 0.1576 |
| 6087 | 1.642845 | 0.6009 | 0.9998 | 0.8703 | 0.9816 | 0.9989 | 0.7044 | 0.1576 |
| 6088 | 1.642576 | 0.6819 | 0.9919 | 0.9954 | 0.9816 | 0.9989 | 0.7043 | 0.1576 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 6089 | 1.642306 | 0.6719 | 0.9878 | 0.9850 | 0.9816 | 0.9989 | 0.7043 | 0.1576 |
| 6090 | 1.642036 | 0.6801 | 0.9994 | 0.9854 | 0.9817 | 0.9989 | 0.7042 | 0.1576 |
| 6091 | 1.641767 | 0.6827 | 0.9899 | 0.9987 | 0.9817 | 0.9989 | 0.7042 | 0.1576 |
| 6092 | 1.641497 | 0.6782 | 0.9960 | 0.9861 | 0.9817 | 0.9989 | 0.7041 | 0.1577 |
| 6093 | 1.641228 | 0.6809 | 0.9997 | 0.9864 | 0.9817 | 0.9989 | 0.7041 | 0.1577 |
| 6094 | 1.640958 | 0.6885 | 0.9998 | 0.9974 | 0.9817 | 0.9989 | 0.7041 | 0.1577 |
| 6095 | 1.640689 | 0.6806 | 0.9998 | 0.9860 | 0.9817 | 0.9989 | 0.7040 | 0.1577 |
| 6096 | 1.640420 | 0.6203 | 0.9995 | 0.8988 | 0.9818 | 0.9989 | 0.7040 | 0.1577 |
| 6097 | 1.640151 | 0.6693 | 0.9948 | 0.9745 | 0.9818 | 0.9989 | 0.7039 | 0.1578 |
| 6098 | 1.639882 | 0.6850 | 0.9967 | 0.9956 | 0.9818 | 0.9989 | 0.7039 | 0.1578 |
| 6099 | 1.639613 | 0.6372 | 0.9312 | 0.9913 | 0.9818 | 0.9989 | 0.7038 | 0.1578 |
| 6100 | 1.639344 | 0.6737 | 0.9840 | 0.9919 | 0.9818 | 0.9989 | 0.7038 | 0.1578 |
| 6101 | 1.639076 | 0.6819 | 0.9989 | 0.9890 | 0.9819 | 0.9989 | 0.7038 | 0.1578 |
| 6102 | 1.638807 | 0.6887 | 0.9996 | 0.9982 | 0.9819 | 0.9989 | 0.7037 | 0.1579 |
| 6103 | 1.638538 | 0.6850 | 0.9998 | 0.9927 | 0.9819 | 0.9989 | 0.7037 | 0.1579 |
| 6104 | 1.638270 | 0.6851 | 0.9975 | 0.9952 | 0.9819 | 0.9989 | 0.7036 | 0.1579 |
| 6105 | 1.638002 | 0.6858 | 0.9999 | 0.9940 | 0.9819 | 0.9989 | 0.7036 | 0.1579 |
| 6106 | 1.637733 | 0.6290 | 0.9999 | 0.9116 | 0.9819 | 0.9989 | 0.7035 | 0.1579 |
| 6107 | 1.637465 | 0.6856 | 0.9999 | 0.9937 | 0.9820 | 0.9989 | 0.7035 | 0.1579 |
| 6108 | 1.637197 | 0.6878 | 0.9998 | 0.9970 | 0.9820 | 0.9989 | 0.7034 | 0.1580 |
| 6109 | 1.636929 | 0.6859 | 0.9960 | 0.9981 | 0.9820 | 0.9989 | 0.7034 | 0.1580 |
| 6110 | 1.636661 | 0.6783 | 0.9906 | 0.9925 | 0.9820 | 0.9989 | 0.7034 | 0.1580 |
| 6111 | 1.636393 | 0.6892 | 0.9998 | 0.9992 | 0.9820 | 0.9989 | 0.7033 | 0.1580 |
| 6112 | 1.636126 | 0.6859 | 0.9999 | 0.9943 | 0.9820 | 0.9989 | 0.7033 | 0.1580 |
| 6113 | 1.635858 | 0.6870 | 0.9999 | 0.9960 | 0.9821 | 0.9989 | 0.7032 | 0.1581 |
| 6114 | 1.635590 | 0.6727 | 0.9996 | 0.9755 | 0.9821 | 0.9989 | 0.7032 | 0.1581 |
| 6115 | 1.635323 | 0.6565 | 0.9936 | 0.9579 | 0.9821 | 0.9989 | 0.7031 | 0.1581 |
| 6116 | 1.635056 | 0.6718 | 0.9758 | 0.9981 | 0.9821 | 0.9989 | 0.7031 | 0.1581 |
| 6117 | 1.634788 | 0.6868 | 0.9993 | 0.9965 | 0.9821 | 0.9989 | 0.7031 | 0.1581 |
| 6118 | 1.634521 | 0.6868 | 0.9998 | 0.9959 | 0.9821 | 0.9989 | 0.7030 | 0.1582 |
| 6119 | 1.634254 | 0.6870 | 0.9995 | 0.9967 | 0.9822 | 0.9989 | 0.7030 | 0.1582 |
| 6120 | 1.633987 | 0.6874 | 0.9983 | 0.9984 | 0.9822 | 0.9989 | 0.7029 | 0.1582 |
| 6121 | 1.633720 | 0.6856 | 0.9998 | 0.9944 | 0.9822 | 0.9989 | 0.7029 | 0.1582 |
| 6122 | 1.633453 | 0.6852 | 0.9984 | 0.9952 | 0.9822 | 0.9989 | 0.7028 | 0.1582 |
| 6123 | 1.633186 | 0.6794 | 0.9976 | 0.9876 | 0.9822 | 0.9989 | 0.7028 | 0.1582 |
| 6124 | 1.632920 | 0.6674 | 0.9960 | 0.9718 | 0.9822 | 0.9989 | 0.7028 | 0.1583 |
| 6125 | 1.632653 | 0.6737 | 0.9818 | 0.9952 | 0.9823 | 0.9989 | 0.7027 | 0.1583 |
| 6126 | 1.632387 | 0.6615 | 0.9620 | 0.9974 | 0.9823 | 0.9989 | 0.7027 | 0.1583 |
| 6127 | 1.632120 | 0.6834 | 0.9950 | 0.9962 | 0.9823 | 0.9989 | 0.7026 | 0.1583 |
| 6128 | 1.631854 | 0.6885 | 0.9995 | 0.9992 | 0.9823 | 0.9989 | 0.7026 | 0.1583 |
| 6129 | 1.631588 | 0.6862 | 0.9983 | 0.9970 | 0.9823 | 0.9989 | 0.7025 | 0.1584 |
| 6130 | 1.631321 | 0.6877 | 0.9999 | 0.9977 | 0.9823 | 0.9989 | 0.7025 | 0.1584 |
| 6131 | 1.631055 | 0.6864 | 0.9991 | 0.9967 | 0.9824 | 0.9989 | 0.7024 | 0.1584 |
| 6132 | 1.630789 | 0.6810 | 0.9994 | 0.9885 | 0.9824 | 0.9989 | 0.7024 | 0.1584 |
| 6133 | 1.630523 | 0.6695 | 0.9984 | 0.9729 | 0.9824 | 0.9989 | 0.7024 | 0.1584 |
| 6134 | 1.630258 | 0.6870 | 0.9999 | 0.9969 | 0.9824 | 0.9989 | 0.7023 | 0.1584 |



|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 6135 | 1.629992 | 0.6881 | 1.0000 | 0.9985 | 0.9824 | 0.9989 | 0.7023 | 0.1585 |
| 6136 | 1.629726 | 0.6885 | 1.0000 | 0.9990 | 0.9824 | 0.9989 | 0.7022 | 0.1585 |
| 6137 | 1.629461 | 0.6875 | 1.0000 | 0.9978 | 0.9825 | 0.9989 | 0.7022 | 0.1585 |
| 6138 | 1.629195 | 0.6876 | 1.0000 | 0.9979 | 0.9825 | 0.9989 | 0.7021 | 0.1585 |
| 6139 | 1.628930 | 0.6881 | 1.0000 | 0.9986 | 0.9825 | 0.9989 | 0.7021 | 0.1585 |
| 6140 | 1.628664 | 0.6839 | 1.0000 | 0.9926 | 0.9825 | 0.9989 | 0.7021 | 0.1586 |
| 6141 | 1.628399 | 0.6860 | 1.0000 | 0.9957 | 0.9825 | 0.9989 | 0.7020 | 0.1586 |
| 6142 | 1.628134 | 0.6782 | 1.0000 | 0.9845 | 0.9825 | 0.9989 | 0.7020 | 0.1586 |
| 6143 | 1.627869 | 0.6873 | 0.9988 | 0.9988 | 0.9826 | 0.9989 | 0.7019 | 0.1586 |
| 6144 | 1.627604 | 0.6874 | 1.0000 | 0.9979 | 0.9826 | 0.9989 | 0.7019 | 0.1586 |
| 6145 | 1.627339 | 0.6855 | 1.0000 | 0.9951 | 0.9826 | 0.9989 | 0.7018 | 0.1586 |
| 6146 | 1.627075 | 0.6865 | 1.0000 | 0.9967 | 0.9826 | 0.9989 | 0.7018 | 0.1587 |
| 6147 | 1.626810 | 0.6881 | 1.0000 | 0.9990 | 0.9826 | 0.9989 | 0.7018 | 0.1587 |
| 6148 | 1.626545 | 0.6869 | 1.0000 | 0.9974 | 0.9826 | 0.9989 | 0.7017 | 0.1587 |
| 6149 | 1.626281 | 0.6869 | 1.0000 | 0.9974 | 0.9826 | 0.9989 | 0.7017 | 0.1587 |
| 6150 | 1.626016 | 0.6815 | 0.9999 | 0.9896 | 0.9827 | 0.9989 | 0.7016 | 0.1587 |
| 6151 | 1.625752 | 0.6867 | 0.9998 | 0.9973 | 0.9827 | 0.9989 | 0.7016 | 0.1588 |
| 6152 | 1.625488 | 0.6850 | 0.9968 | 0.9979 | 0.9827 | 0.9989 | 0.7015 | 0.1588 |
| 6153 | 1.625223 | 0.6804 | 0.9905 | 0.9976 | 0.9827 | 0.9989 | 0.7015 | 0.1588 |
| 6154 | 1.624959 | 0.6872 | 0.9989 | 0.9991 | 0.9827 | 0.9989 | 0.7015 | 0.1588 |
| 6155 | 1.624695 | 0.6802 | 0.9885 | 0.9994 | 0.9827 | 0.9989 | 0.7014 | 0.1588 |
| 6156 | 1.624431 | 0.6868 | 0.9991 | 0.9985 | 0.9827 | 0.9989 | 0.7014 | 0.1589 |
| 6157 | 1.624168 | 0.6858 | 0.9999 | 0.9962 | 0.9828 | 0.9989 | 0.7013 | 0.1589 |
| 6158 | 1.623904 | 0.6835 | 0.9991 | 0.9937 | 0.9828 | 0.9989 | 0.7013 | 0.1589 |
| 6159 | 1.623640 | 0.6862 | 0.9999 | 0.9968 | 0.9828 | 0.9989 | 0.7012 | 0.1589 |
| 6160 | 1.623377 | 0.6869 | 1.0000 | 0.9979 | 0.9828 | 0.9989 | 0.7012 | 0.1589 |
| 6161 | 1.623113 | 0.6872 | 1.0000 | 0.9985 | 0.9828 | 0.9989 | 0.7012 | 0.1589 |
| 6162 | 1.622850 | 0.6849 | 0.9991 | 0.9960 | 0.9828 | 0.9989 | 0.7011 | 0.1590 |
| 6163 | 1.622586 | 0.6866 | 0.9982 | 0.9993 | 0.9828 | 0.9989 | 0.7011 | 0.1590 |
| 6164 | 1.622323 | 0.6852 | 0.9999 | 0.9957 | 0.9829 | 0.9989 | 0.7010 | 0.1590 |
| 6165 | 1.622060 | 0.6869 | 0.9999 | 0.9983 | 0.9829 | 0.9989 | 0.7010 | 0.1590 |
| 6166 | 1.621797 | 0.6839 | 0.9978 | 0.9959 | 0.9829 | 0.9989 | 0.7009 | 0.1590 |
| 6167 | 1.621534 | 0.6860 | 0.9999 | 0.9970 | 0.9829 | 0.9989 | 0.7009 | 0.1591 |
| 6168 | 1.621271 | 0.6852 | 1.0000 | 0.9958 | 0.9829 | 0.9989 | 0.7009 | 0.1591 |
| 6169 | 1.621008 | 0.6859 | 1.0000 | 0.9969 | 0.9829 | 0.9989 | 0.7008 | 0.1591 |
| 6170 | 1.620746 | 0.6855 | 1.0000 | 0.9964 | 0.9829 | 0.9989 | 0.7008 | 0.1591 |
| 6171 | 1.620483 | 0.6849 | 1.0000 | 0.9956 | 0.9830 | 0.9989 | 0.7007 | 0.1591 |
| 6172 | 1.620220 | 0.6845 | 0.9999 | 0.9950 | 0.9830 | 0.9989 | 0.7007 | 0.1591 |
| 6173 | 1.619958 | 0.6866 | 0.9999 | 0.9982 | 0.9830 | 0.9989 | 0.7006 | 0.1592 |
| 6174 | 1.619695 | 0.6840 | 0.9999 | 0.9945 | 0.9830 | 0.9989 | 0.7006 | 0.1592 |
| 6175 | 1.619433 | 0.6870 | 0.9997 | 0.9990 | 0.9830 | 0.9989 | 0.7006 | 0.1592 |
| 6176 | 1.619171 | 0.6800 | 0.9971 | 0.9915 | 0.9830 | 0.9989 | 0.7005 | 0.1592 |
| 6177 | 1.618909 | 0.6681 | 0.9732 | 0.9981 | 0.9830 | 0.9989 | 0.7005 | 0.1592 |
| 6178 | 1.618647 | 0.6728 | 0.9880 | 0.9901 | 0.9831 | 0.9989 | 0.7004 | 0.1593 |
| 6179 | 1.618385 | 0.6841 | 0.9995 | 0.9952 | 0.9831 | 0.9989 | 0.7004 | 0.1593 |
| 6180 | 1.618123 | 0.6816 | 0.9998 | 0.9912 | 0.9831 | 0.9989 | 0.7003 | 0.1593 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 6181 | 1.617861 | 0.6840 | 0.9999 | 0.9947 | 0.9831 | 0.9989 | 0.7003 | 0.1593 |
| 6182 | 1.617599 | 0.6802 | 0.9999 | 0.9893 | 0.9831 | 0.9989 | 0.7003 | 0.1593 |
| 6183 | 1.617338 | 0.6843 | 0.9998 | 0.9954 | 0.9831 | 0.9989 | 0.7002 | 0.1593 |
| 6184 | 1.617076 | 0.6833 | 0.9993 | 0.9944 | 0.9831 | 0.9989 | 0.7002 | 0.1594 |
| 6185 | 1.616815 | 0.6681 | 0.9876 | 0.9840 | 0.9831 | 0.9989 | 0.7001 | 0.1594 |
| 6186 | 1.616554 | 0.6667 | 0.9749 | 0.9947 | 0.9832 | 0.9988 | 0.7001 | 0.1594 |
| 6187 | 1.616292 | 0.6751 | 0.9972 | 0.9848 | 0.9832 | 0.9988 | 0.7000 | 0.1594 |
| 6188 | 1.616031 | 0.6841 | 0.9997 | 0.9954 | 0.9832 | 0.9988 | 0.7000 | 0.1594 |
| 6189 | 1.615770 | 0.6747 | 0.9999 | 0.9817 | 0.9832 | 0.9988 | 0.7000 | 0.1595 |
| 6190 | 1.615509 | 0.6840 | 0.9999 | 0.9952 | 0.9832 | 0.9988 | 0.6999 | 0.1595 |
| 6191 | 1.615248 | 0.6707 | 0.9999 | 0.9759 | 0.9832 | 0.9988 | 0.6999 | 0.1595 |
| 6192 | 1.614987 | 0.6846 | 0.9997 | 0.9963 | 0.9832 | 0.9988 | 0.6998 | 0.1595 |
| 6193 | 1.614726 | 0.6663 | 0.9956 | 0.9738 | 0.9833 | 0.9988 | 0.6998 | 0.1595 |
| 6194 | 1.614466 | 0.6846 | 0.9996 | 0.9965 | 0.9833 | 0.9988 | 0.6998 | 0.1595 |
| 6195 | 1.614205 | 0.6635 | 0.9969 | 0.9686 | 0.9833 | 0.9988 | 0.6997 | 0.1596 |
| 6196 | 1.613944 | 0.6837 | 0.9996 | 0.9954 | 0.9833 | 0.9988 | 0.6997 | 0.1596 |
| 6197 | 1.613684 | 0.6603 | 0.9986 | 0.9624 | 0.9833 | 0.9988 | 0.6996 | 0.1596 |
| 6198 | 1.613424 | 0.6620 | 0.9677 | 0.9957 | 0.9833 | 0.9988 | 0.6996 | 0.1596 |
| 6199 | 1.613163 | 0.6544 | 0.9986 | 0.9538 | 0.9833 | 0.9988 | 0.6995 | 0.1596 |
| 6200 | 1.612903 | 0.6824 | 0.9983 | 0.9950 | 0.9833 | 0.9988 | 0.6995 | 0.1597 |
| 6201 | 1.612643 | 0.6479 | 0.9998 | 0.9432 | 0.9834 | 0.9988 | 0.6995 | 0.1597 |
| 6202 | 1.612383 | 0.6822 | 0.9999 | 0.9931 | 0.9834 | 0.9988 | 0.6994 | 0.1597 |
| 6203 | 1.612123 | 0.6434 | 0.9999 | 0.9367 | 0.9834 | 0.9988 | 0.6994 | 0.1597 |
| 6204 | 1.611863 | 0.6792 | 0.9999 | 0.9888 | 0.9834 | 0.9988 | 0.6993 | 0.1597 |
| 6205 | 1.611604 | 0.6374 | 0.9996 | 0.9283 | 0.9834 | 0.9988 | 0.6993 | 0.1597 |
| 6206 | 1.611344 | 0.6781 | 0.9999 | 0.9874 | 0.9834 | 0.9988 | 0.6992 | 0.1598 |
| 6207 | 1.611084 | 0.6322 | 0.9998 | 0.9207 | 0.9834 | 0.9988 | 0.6992 | 0.1598 |
| 6208 | 1.610825 | 0.6792 | 0.9989 | 0.9900 | 0.9835 | 0.9988 | 0.6992 | 0.1598 |
| 6209 | 1.610565 | 0.6088 | 0.9734 | 0.9107 | 0.9835 | 0.9988 | 0.6991 | 0.1598 |
| 6210 | 1.610306 | 0.6767 | 0.9989 | 0.9865 | 0.9835 | 0.9988 | 0.6991 | 0.1598 |
| 6211 | 1.610047 | 0.6217 | 0.9997 | 0.9056 | 0.9835 | 0.9988 | 0.6990 | 0.1599 |
| 6212 | 1.609788 | 0.6806 | 0.9982 | 0.9929 | 0.9835 | 0.9988 | 0.6990 | 0.1599 |
| 6213 | 1.609528 | 0.6194 | 0.9998 | 0.9022 | 0.9835 | 0.9988 | 0.6990 | 0.1599 |
| 6214 | 1.609269 | 0.6775 | 0.9998 | 0.9870 | 0.9835 | 0.9988 | 0.6989 | 0.1599 |
| 6215 | 1.609010 | 0.6156 | 0.9973 | 0.8991 | 0.9835 | 0.9988 | 0.6989 | 0.1599 |
| 6216 | 1.608752 | 0.6181 | 0.9993 | 0.9010 | 0.9836 | 0.9988 | 0.6988 | 0.1599 |
| 6217 | 1.608493 | 0.6690 | 0.9846 | 0.9897 | 0.9836 | 0.9988 | 0.6988 | 0.1600 |
| 6218 | 1.608234 | 0.6117 | 0.9814 | 0.9081 | 0.9836 | 0.9988 | 0.6987 | 0.1600 |
| 6219 | 1.607976 | 0.6777 | 0.9982 | 0.9890 | 0.9836 | 0.9988 | 0.6987 | 0.1600 |
| 6220 | 1.607717 | 0.6238 | 0.9949 | 0.9135 | 0.9836 | 0.9988 | 0.6987 | 0.1600 |
| 6221 | 1.607459 | 0.6330 | 0.9997 | 0.9226 | 0.9836 | 0.9988 | 0.6986 | 0.1600 |
| 6222 | 1.607200 | 0.6813 | 0.9999 | 0.9927 | 0.9836 | 0.9988 | 0.6986 | 0.1600 |
| 6223 | 1.606942 | 0.6442 | 0.9999 | 0.9387 | 0.9836 | 0.9988 | 0.6985 | 0.1601 |
| 6224 | 1.606684 | 0.6826 | 0.9999 | 0.9947 | 0.9837 | 0.9988 | 0.6985 | 0.1601 |
| 6225 | 1.606426 | 0.6542 | 0.9982 | 0.9551 | 0.9837 | 0.9988 | 0.6984 | 0.1601 |
| 6226 | 1.606168 | 0.6692 | 0.9999 | 0.9753 | 0.9837 | 0.9988 | 0.6984 | 0.1601 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 6227 | 1.605910 | 0.6833 | 0.9991 | 0.9967 | 0.9837 | 0.9988 | 0.6984 | 0.1601 |
| 6228 | 1.605652 | 0.6838 | 0.9995 | 0.9971 | 0.9837 | 0.9988 | 0.6983 | 0.1602 |
| 6229 | 1.605394 | 0.6769 | 1.0000 | 0.9866 | 0.9837 | 0.9988 | 0.6983 | 0.1602 |
| 6230 | 1.605136 | 0.6617 | 1.0000 | 0.9645 | 0.9837 | 0.9988 | 0.6982 | 0.1602 |
| 6231 | 1.604879 | 0.6832 | 1.0000 | 0.9959 | 0.9837 | 0.9988 | 0.6982 | 0.1602 |
| 6232 | 1.604621 | 0.6473 | 1.0000 | 0.9437 | 0.9838 | 0.9988 | 0.6982 | 0.1602 |
| 6233 | 1.604364 | 0.6371 | 0.9999 | 0.9289 | 0.9838 | 0.9988 | 0.6981 | 0.1602 |
| 6234 | 1.604107 | 0.6791 | 0.9982 | 0.9919 | 0.9838 | 0.9988 | 0.6981 | 0.1603 |
| 6235 | 1.603849 | 0.6249 | 0.9975 | 0.9133 | 0.9838 | 0.9988 | 0.6980 | 0.1603 |
| 6236 | 1.603592 | 0.6188 | 0.9999 | 0.9023 | 0.9838 | 0.9988 | 0.6980 | 0.1603 |
| 6237 | 1.603335 | 0.6152 | 0.9999 | 0.8971 | 0.9838 | 0.9988 | 0.6979 | 0.1603 |
| 6238 | 1.603078 | 0.6797 | 0.9999 | 0.9912 | 0.9838 | 0.9988 | 0.6979 | 0.1603 |
| 6239 | 1.602821 | 0.6203 | 0.9998 | 0.9047 | 0.9838 | 0.9988 | 0.6979 | 0.1604 |
| 6240 | 1.602564 | 0.6171 | 0.9980 | 0.9017 | 0.9839 | 0.9988 | 0.6978 | 0.1604 |
| 6241 | 1.602307 | 0.6201 | 0.9985 | 0.9056 | 0.9839 | 0.9988 | 0.6978 | 0.1604 |
| 6242 | 1.602051 | 0.6552 | 0.9636 | 0.9917 | 0.9839 | 0.9988 | 0.6977 | 0.1604 |
| 6243 | 1.601794 | 0.6155 | 0.9985 | 0.8991 | 0.9839 | 0.9988 | 0.6977 | 0.1604 |
| 6244 | 1.601537 | 0.6180 | 0.9991 | 0.9023 | 0.9839 | 0.9988 | 0.6977 | 0.1604 |
| 6245 | 1.601281 | 0.6131 | 0.9830 | 0.9097 | 0.9839 | 0.9988 | 0.6976 | 0.1605 |
| 6246 | 1.601025 | 0.6287 | 0.9993 | 0.9177 | 0.9839 | 0.9988 | 0.6976 | 0.1605 |
| 6247 | 1.600768 | 0.6360 | 0.9998 | 0.9280 | 0.9839 | 0.9988 | 0.6975 | 0.1605 |
| 6248 | 1.600512 | 0.6819 | 0.9999 | 0.9950 | 0.9839 | 0.9988 | 0.6975 | 0.1605 |
| 6249 | 1.600256 | 0.6425 | 0.9999 | 0.9374 | 0.9840 | 0.9988 | 0.6975 | 0.1605 |
| 6250 | 1.600000 | 0.6475 | 0.9999 | 0.9447 | 0.9840 | 0.9988 | 0.6974 | 0.1605 |
| 6251 | 1.599744 | 0.6532 | 0.9999 | 0.9531 | 0.9840 | 0.9988 | 0.6974 | 0.1606 |
| 6252 | 1.599488 | 0.6594 | 0.9999 | 0.9623 | 0.9840 | 0.9988 | 0.6973 | 0.1606 |
| 6253 | 1.599232 | 0.6634 | 0.9998 | 0.9682 | 0.9840 | 0.9988 | 0.6973 | 0.1606 |
| 6254 | 1.598977 | 0.6666 | 0.9982 | 0.9745 | 0.9840 | 0.9988 | 0.6972 | 0.1606 |
| 6255 | 1.598721 | 0.6624 | 0.9868 | 0.9796 | 0.9840 | 0.9988 | 0.6972 | 0.1606 |
| 6256 | 1.598465 | 0.6672 | 0.9991 | 0.9746 | 0.9840 | 0.9988 | 0.6972 | 0.1607 |
| 6257 | 1.598210 | 0.6737 | 0.9917 | 0.9915 | 0.9841 | 0.9988 | 0.6971 | 0.1607 |
| 6258 | 1.597955 | 0.6798 | 0.9993 | 0.9928 | 0.9841 | 0.9988 | 0.6971 | 0.1607 |
| 6259 | 1.597699 | 0.6806 | 0.9989 | 0.9946 | 0.9841 | 0.9988 | 0.6970 | 0.1607 |
| 6260 | 1.597444 | 0.6688 | 0.9821 | 0.9940 | 0.9841 | 0.9988 | 0.6970 | 0.1607 |
| 6261 | 1.597189 | 0.6550 | 0.9585 | 0.9975 | 0.9841 | 0.9988 | 0.6970 | 0.1607 |
| 6262 | 1.596934 | 0.6816 | 0.9975 | 0.9975 | 0.9841 | 0.9988 | 0.6969 | 0.1608 |
| 6263 | 1.596679 | 0.6726 | 0.9833 | 0.9986 | 0.9841 | 0.9988 | 0.6969 | 0.1608 |
| 6264 | 1.596424 | 0.6829 | 0.9981 | 0.9989 | 0.9841 | 0.9988 | 0.6968 | 0.1608 |
| 6265 | 1.596169 | 0.6634 | 0.9692 | 0.9992 | 0.9842 | 0.9988 | 0.6968 | 0.1608 |
| 6266 | 1.595914 | 0.6833 | 0.9986 | 0.9991 | 0.9842 | 0.9988 | 0.6968 | 0.1608 |
| 6267 | 1.595660 | 0.6839 | 0.9991 | 0.9994 | 0.9842 | 0.9988 | 0.6967 | 0.1608 |
| 6268 | 1.595405 | 0.6844 | 0.9997 | 0.9997 | 0.9842 | 0.9988 | 0.6967 | 0.1609 |
| 6269 | 1.595151 | 0.6842 | 0.9995 | 0.9996 | 0.9842 | 0.9988 | 0.6966 | 0.1609 |
| 6270 | 1.594896 | 0.6794 | 0.9925 | 0.9997 | 0.9842 | 0.9988 | 0.6966 | 0.1609 |
| 6271 | 1.594642 | 0.6805 | 0.9942 | 0.9997 | 0.9842 | 0.9988 | 0.6965 | 0.1609 |
| 6272 | 1.594388 | 0.6514 | 0.9517 | 0.9996 | 0.9842 | 0.9988 | 0.6965 | 0.1609 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 6273 | 1.594134 | 0.6814 | 0.9954 | 0.9998 | 0.9843 | 0.9988 | 0.6965 | 0.1610 |
| 6274 | 1.593880 | 0.6841 | 0.9995 | 0.9997 | 0.9843 | 0.9988 | 0.6964 | 0.1610 |
| 6275 | 1.593625 | 0.6842 | 0.9996 | 0.9998 | 0.9843 | 0.9988 | 0.6964 | 0.1610 |
| 6276 | 1.593372 | 0.6814 | 0.9957 | 0.9996 | 0.9843 | 0.9988 | 0.6963 | 0.1610 |
| 6277 | 1.593118 | 0.6841 | 0.9995 | 0.9999 | 0.9843 | 0.9988 | 0.6963 | 0.1610 |
| 6278 | 1.592864 | 0.6812 | 0.9955 | 0.9997 | 0.9843 | 0.9988 | 0.6963 | 0.1610 |
| 6279 | 1.592610 | 0.6833 | 0.9985 | 0.9998 | 0.9843 | 0.9988 | 0.6962 | 0.1611 |
| 6280 | 1.592357 | 0.6647 | 0.9713 | 0.9999 | 0.9843 | 0.9988 | 0.6962 | 0.1611 |
| 6281 | 1.592103 | 0.6830 | 0.9984 | 0.9996 | 0.9844 | 0.9988 | 0.6961 | 0.1611 |
| 6282 | 1.591850 | 0.6806 | 0.9946 | 0.9999 | 0.9844 | 0.9988 | 0.6961 | 0.1611 |
| 6283 | 1.591596 | 0.6607 | 0.9661 | 0.9994 | 0.9844 | 0.9988 | 0.6961 | 0.1611 |
| 6284 | 1.591343 | 0.6830 | 0.9981 | 0.9999 | 0.9844 | 0.9988 | 0.6960 | 0.1611 |
| 6285 | 1.591090 | 0.6832 | 0.9988 | 0.9997 | 0.9844 | 0.9988 | 0.6960 | 0.1612 |
| 6286 | 1.590837 | 0.6795 | 0.9936 | 0.9995 | 0.9844 | 0.9988 | 0.6959 | 0.1612 |
| 6287 | 1.590584 | 0.6828 | 0.9984 | 0.9996 | 0.9844 | 0.9988 | 0.6959 | 0.1612 |
| 6288 | 1.590331 | 0.6673 | 0.9759 | 0.9993 | 0.9844 | 0.9988 | 0.6958 | 0.1612 |
| 6289 | 1.590078 | 0.6818 | 0.9970 | 0.9996 | 0.9845 | 0.9988 | 0.6958 | 0.1612 |
| 6290 | 1.589825 | 0.6836 | 0.9993 | 0.9999 | 0.9845 | 0.9988 | 0.6958 | 0.1613 |
| 6291 | 1.589572 | 0.6831 | 0.9999 | 0.9986 | 0.9845 | 0.9988 | 0.6957 | 0.1613 |
| 6292 | 1.589320 | 0.6839 | 0.9999 | 0.9999 | 0.9845 | 0.9988 | 0.6957 | 0.1613 |
| 6293 | 1.589067 | 0.6827 | 0.9999 | 0.9982 | 0.9845 | 0.9988 | 0.6956 | 0.1613 |
| 6294 | 1.588815 | 0.6839 | 0.9999 | 0.9999 | 0.9845 | 0.9988 | 0.6956 | 0.1613 |
| 6295 | 1.588562 | 0.6822 | 0.9999 | 0.9975 | 0.9845 | 0.9988 | 0.6956 | 0.1613 |
| 6296 | 1.588310 | 0.6835 | 0.9999 | 0.9995 | 0.9845 | 0.9988 | 0.6955 | 0.1614 |
| 6297 | 1.588058 | 0.6837 | 0.9998 | 0.9998 | 0.9846 | 0.9988 | 0.6955 | 0.1614 |
| 6298 | 1.587806 | 0.6813 | 0.9997 | 0.9966 | 0.9846 | 0.9988 | 0.6954 | 0.1614 |
| 6299 | 1.587554 | 0.6827 | 0.9985 | 0.9998 | 0.9846 | 0.9988 | 0.6954 | 0.1614 |
| 6300 | 1.587302 | 0.6560 | 0.9638 | 0.9953 | 0.9846 | 0.9988 | 0.6954 | 0.1614 |
| 6301 | 1.587050 | 0.6758 | 0.9887 | 0.9997 | 0.9846 | 0.9988 | 0.6953 | 0.1614 |
| 6302 | 1.586798 | 0.6716 | 0.9885 | 0.9936 | 0.9846 | 0.9988 | 0.6953 | 0.1615 |
| 6303 | 1.586546 | 0.6823 | 0.9987 | 0.9993 | 0.9846 | 0.9988 | 0.6952 | 0.1615 |
| 6304 | 1.586294 | 0.6516 | 0.9610 | 0.9917 | 0.9847 | 0.9988 | 0.6952 | 0.1615 |
| 6305 | 1.586043 | 0.6826 | 0.9990 | 0.9994 | 0.9847 | 0.9988 | 0.6952 | 0.1615 |
| 6306 | 1.585791 | 0.6801 | 0.9953 | 0.9996 | 0.9847 | 0.9988 | 0.6951 | 0.1615 |
| 6307 | 1.585540 | 0.6757 | 0.9997 | 0.9887 | 0.9847 | 0.9988 | 0.6951 | 0.1615 |
| 6308 | 1.585289 | 0.6828 | 0.9999 | 0.9991 | 0.9847 | 0.9988 | 0.6950 | 0.1616 |
| 6309 | 1.585037 | 0.6732 | 0.9997 | 0.9852 | 0.9847 | 0.9988 | 0.6950 | 0.1616 |
| 6310 | 1.584786 | 0.6777 | 0.9927 | 0.9988 | 0.9847 | 0.9988 | 0.6950 | 0.1616 |
| 6311 | 1.584535 | 0.6701 | 0.9997 | 0.9807 | 0.9848 | 0.9988 | 0.6949 | 0.1616 |
| 6312 | 1.584284 | 0.6821 | 0.9999 | 0.9982 | 0.9848 | 0.9988 | 0.6949 | 0.1616 |
| 6313 | 1.584033 | 0.6667 | 0.9999 | 0.9757 | 0.9848 | 0.9988 | 0.6948 | 0.1617 |
| 6314 | 1.583782 | 0.6817 | 0.9998 | 0.9977 | 0.9848 | 0.9988 | 0.6948 | 0.1617 |
| 6315 | 1.583531 | 0.6622 | 0.9995 | 0.9696 | 0.9848 | 0.9988 | 0.6948 | 0.1617 |
| 6316 | 1.583281 | 0.6744 | 0.9902 | 0.9967 | 0.9848 | 0.9987 | 0.6947 | 0.1617 |
| 6317 | 1.583030 | 0.6320 | 0.9602 | 0.9632 | 0.9848 | 0.9987 | 0.6947 | 0.1617 |
| 6318 | 1.582779 | 0.6796 | 0.9987 | 0.9960 | 0.9848 | 0.9987 | 0.6946 | 0.1617 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 6319 | 1.582529 | 0.6483 | 0.9930 | 0.9555 | 0.9849 | 0.9987 | 0.6946 | 0.1618 |
| 6320 | 1.582278 | 0.6796 | 0.9997 | 0.9951 | 0.9849 | 0.9987 | 0.6946 | 0.1618 |
| 6321 | 1.582028 | 0.6472 | 0.9998 | 0.9476 | 0.9849 | 0.9987 | 0.6945 | 0.1618 |
| 6322 | 1.581778 | 0.6775 | 0.9976 | 0.9942 | 0.9849 | 0.9987 | 0.6945 | 0.1618 |
| 6323 | 1.581528 | 0.6380 | 0.9936 | 0.9399 | 0.9849 | 0.9987 | 0.6944 | 0.1618 |
| 6324 | 1.581278 | 0.6781 | 0.9997 | 0.9931 | 0.9849 | 0.9987 | 0.6944 | 0.1618 |
| 6325 | 1.581028 | 0.6362 | 0.9999 | 0.9316 | 0.9849 | 0.9987 | 0.6944 | 0.1619 |
| 6326 | 1.580778 | 0.6773 | 0.9998 | 0.9919 | 0.9849 | 0.9987 | 0.6943 | 0.1619 |
| 6327 | 1.580528 | 0.6271 | 0.9934 | 0.9243 | 0.9850 | 0.9987 | 0.6943 | 0.1619 |
| 6328 | 1.580278 | 0.6755 | 0.9983 | 0.9908 | 0.9850 | 0.9987 | 0.6942 | 0.1619 |
| 6329 | 1.580028 | 0.6264 | 0.9999 | 0.9173 | 0.9850 | 0.9987 | 0.6942 | 0.1619 |
| 6330 | 1.579779 | 0.6773 | 0.9999 | 0.9919 | 0.9850 | 0.9987 | 0.6942 | 0.1619 |
| 6331 | 1.579529 | 0.6214 | 0.9999 | 0.9102 | 0.9850 | 0.9987 | 0.6941 | 0.1620 |
| 6332 | 1.579280 | 0.6748 | 0.9998 | 0.9885 | 0.9850 | 0.9987 | 0.6941 | 0.1620 |
| 6333 | 1.579030 | 0.6156 | 0.9955 | 0.9057 | 0.9850 | 0.9987 | 0.6940 | 0.1620 |
| 6334 | 1.578781 | 0.5977 | 0.9729 | 0.8998 | 0.9850 | 0.9987 | 0.6940 | 0.1620 |
| 6335 | 1.578532 | 0.6744 | 0.9956 | 0.9922 | 0.9851 | 0.9987 | 0.6939 | 0.1620 |
| 6336 | 1.578283 | 0.6157 | 0.9997 | 0.9021 | 0.9851 | 0.9987 | 0.6939 | 0.1621 |
| 6337 | 1.578034 | 0.6770 | 0.9992 | 0.9926 | 0.9851 | 0.9987 | 0.6939 | 0.1621 |
| 6338 | 1.577785 | 0.6178 | 0.9999 | 0.9051 | 0.9851 | 0.9987 | 0.6938 | 0.1621 |
| 6339 | 1.577536 | 0.6752 | 0.9999 | 0.9892 | 0.9851 | 0.9987 | 0.6938 | 0.1621 |
| 6340 | 1.577287 | 0.6226 | 0.9999 | 0.9122 | 0.9851 | 0.9987 | 0.6937 | 0.1621 |
| 6341 | 1.577038 | 0.6284 | 0.9994 | 0.9213 | 0.9851 | 0.9987 | 0.6937 | 0.1621 |
| 6342 | 1.576790 | 0.6759 | 0.9997 | 0.9906 | 0.9851 | 0.9987 | 0.6937 | 0.1622 |
| 6343 | 1.576541 | 0.6344 | 0.9923 | 0.9368 | 0.9852 | 0.9987 | 0.6936 | 0.1622 |
| 6344 | 1.576293 | 0.6711 | 0.9914 | 0.9919 | 0.9852 | 0.9987 | 0.6936 | 0.1622 |
| 6345 | 1.576044 | 0.6499 | 0.9995 | 0.9528 | 0.9852 | 0.9987 | 0.6935 | 0.1622 |
| 6346 | 1.575796 | 0.6573 | 0.9941 | 0.9690 | 0.9852 | 0.9987 | 0.6935 | 0.1622 |
| 6347 | 1.575548 | 0.6738 | 0.9929 | 0.9945 | 0.9852 | 0.9987 | 0.6935 | 0.1622 |
| 6348 | 1.575299 | 0.6768 | 0.9964 | 0.9954 | 0.9852 | 0.9987 | 0.6934 | 0.1623 |
| 6349 | 1.575051 | 0.6708 | 0.9999 | 0.9833 | 0.9852 | 0.9987 | 0.6934 | 0.1623 |
| 6350 | 1.574803 | 0.6567 | 0.9999 | 0.9626 | 0.9852 | 0.9987 | 0.6934 | 0.1623 |
| 6351 | 1.574555 | 0.6776 | 0.9998 | 0.9934 | 0.9852 | 0.9987 | 0.6933 | 0.1623 |
| 6352 | 1.574307 | 0.6396 | 0.9969 | 0.9405 | 0.9853 | 0.9987 | 0.6933 | 0.1623 |
| 6353 | 1.574059 | 0.6312 | 0.9983 | 0.9270 | 0.9853 | 0.9987 | 0.6932 | 0.1623 |
| 6354 | 1.573812 | 0.6760 | 0.9995 | 0.9915 | 0.9853 | 0.9987 | 0.6932 | 0.1624 |
| 6355 | 1.573564 | 0.6169 | 0.9904 | 0.9133 | 0.9853 | 0.9987 | 0.6932 | 0.1624 |
| 6356 | 1.573317 | 0.6102 | 0.9945 | 0.8997 | 0.9853 | 0.9987 | 0.6931 | 0.1624 |
| 6357 | 1.573069 | 0.6115 | 0.9996 | 0.8969 | 0.9853 | 0.9987 | 0.6931 | 0.1624 |
| 6358 | 1.572822 | 0.6732 | 0.9965 | 0.9906 | 0.9853 | 0.9987 | 0.6930 | 0.1624 |
| 6359 | 1.572574 | 0.6074 | 0.9998 | 0.8909 | 0.9853 | 0.9987 | 0.6930 | 0.1624 |
| 6360 | 1.572327 | 0.6136 | 0.9999 | 0.8998 | 0.9853 | 0.9987 | 0.6930 | 0.1625 |
| 6361 | 1.572080 | 0.6074 | 0.9983 | 0.8923 | 0.9853 | 0.9987 | 0.6929 | 0.1625 |
| 6362 | 1.571833 | 0.6704 | 0.9971 | 0.9860 | 0.9854 | 0.9987 | 0.6929 | 0.1625 |
| 6363 | 1.571586 | 0.6071 | 0.9939 | 0.8959 | 0.9854 | 0.9987 | 0.6928 | 0.1625 |
| 6364 | 1.571339 | 0.6077 | 0.9946 | 0.8961 | 0.9854 | 0.9987 | 0.6928 | 0.1625 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 6365 | 1.571092 | 0.6165 | 0.9986 | 0.9057 | 0.9854 | 0.9987 | 0.6928 | 0.1625 |
| 6366 | 1.570845 | 0.6207 | 0.9996 | 0.9108 | 0.9854 | 0.9987 | 0.6927 | 0.1626 |
| 6367 | 1.570598 | 0.6246 | 0.9928 | 0.9229 | 0.9854 | 0.9987 | 0.6927 | 0.1626 |
| 6368 | 1.570352 | 0.6329 | 0.9959 | 0.9323 | 0.9854 | 0.9987 | 0.6926 | 0.1626 |
| 6369 | 1.570105 | 0.6391 | 0.9996 | 0.9379 | 0.9854 | 0.9987 | 0.6926 | 0.1626 |
| 6370 | 1.569859 | 0.6419 | 0.9949 | 0.9466 | 0.9854 | 0.9987 | 0.6926 | 0.1626 |
| 6371 | 1.569612 | 0.6527 | 0.9990 | 0.9585 | 0.9855 | 0.9987 | 0.6925 | 0.1627 |
| 6372 | 1.569366 | 0.6580 | 0.9999 | 0.9656 | 0.9855 | 0.9987 | 0.6925 | 0.1627 |
| 6373 | 1.569120 | 0.6603 | 0.9998 | 0.9691 | 0.9855 | 0.9987 | 0.6924 | 0.1627 |
| 6374 | 1.568874 | 0.6613 | 0.9952 | 0.9751 | 0.9855 | 0.9987 | 0.6924 | 0.1627 |
| 6375 | 1.568627 | 0.6674 | 0.9994 | 0.9801 | 0.9855 | 0.9987 | 0.6924 | 0.1627 |
| 6376 | 1.568381 | 0.6704 | 0.9997 | 0.9842 | 0.9855 | 0.9987 | 0.6923 | 0.1627 |
| 6377 | 1.568135 | 0.6708 | 0.9967 | 0.9878 | 0.9855 | 0.9987 | 0.6923 | 0.1628 |
| 6378 | 1.567890 | 0.6567 | 0.9712 | 0.9925 | 0.9855 | 0.9987 | 0.6922 | 0.1628 |
| 6379 | 1.567644 | 0.6736 | 0.9985 | 0.9902 | 0.9855 | 0.9987 | 0.6922 | 0.1628 |
| 6380 | 1.567398 | 0.6755 | 0.9964 | 0.9951 | 0.9855 | 0.9987 | 0.6922 | 0.1628 |
| 6381 | 1.567152 | 0.6745 | 0.9936 | 0.9965 | 0.9856 | 0.9987 | 0.6921 | 0.1628 |
| 6382 | 1.566907 | 0.6720 | 0.9896 | 0.9968 | 0.9856 | 0.9987 | 0.6921 | 0.1628 |
| 6383 | 1.566661 | 0.6796 | 0.9995 | 0.9982 | 0.9856 | 0.9987 | 0.6920 | 0.1629 |
| 6384 | 1.566416 | 0.6798 | 0.9994 | 0.9987 | 0.9856 | 0.9987 | 0.6920 | 0.1629 |
| 6385 | 1.566171 | 0.6703 | 0.9852 | 0.9989 | 0.9856 | 0.9987 | 0.6920 | 0.1629 |
| 6386 | 1.565925 | 0.6666 | 0.9794 | 0.9993 | 0.9856 | 0.9987 | 0.6919 | 0.1629 |
| 6387 | 1.565680 | 0.6802 | 0.9992 | 0.9996 | 0.9856 | 0.9987 | 0.6919 | 0.1629 |
| 6388 | 1.565435 | 0.6806 | 0.9997 | 0.9996 | 0.9856 | 0.9987 | 0.6918 | 0.1629 |
| 6389 | 1.565190 | 0.6806 | 0.9996 | 0.9998 | 0.9856 | 0.9987 | 0.6918 | 0.1630 |
| 6390 | 1.564945 | 0.6777 | 0.9953 | 0.9999 | 0.9856 | 0.9987 | 0.6918 | 0.1630 |
| 6391 | 1.564700 | 0.6799 | 0.9986 | 0.9999 | 0.9857 | 0.9987 | 0.6917 | 0.1630 |
| 6392 | 1.564456 | 0.6606 | 0.9703 | 0.9999 | 0.9857 | 0.9987 | 0.6917 | 0.1630 |
| 6393 | 1.564211 | 0.6731 | 0.9887 | 1.0000 | 0.9857 | 0.9987 | 0.6917 | 0.1630 |
| 6394 | 1.563966 | 0.6729 | 0.9883 | 1.0000 | 0.9857 | 0.9987 | 0.6916 | 0.1630 |
| 6395 | 1.563722 | 0.6801 | 0.9990 | 1.0000 | 0.9857 | 0.9987 | 0.6916 | 0.1631 |
| 6396 | 1.563477 | 0.6750 | 0.9915 | 1.0000 | 0.9857 | 0.9987 | 0.6915 | 0.1631 |
| 6397 | 1.563233 | 0.6782 | 0.9963 | 1.0000 | 0.9857 | 0.9987 | 0.6915 | 0.1631 |
| 6398 | 1.562988 | 0.6760 | 0.9931 | 1.0000 | 0.9857 | 0.9987 | 0.6915 | 0.1631 |
| 6399 | 1.562744 | 0.6727 | 0.9883 | 1.0000 | 0.9857 | 0.9987 | 0.6914 | 0.1631 |
| 6400 | 1.562500 | 0.6576 | 0.9662 | 0.9999 | 0.9857 | 0.9987 | 0.6914 | 0.1631 |
| 6401 | 1.562256 | 0.6549 | 0.9623 | 1.0000 | 0.9858 | 0.9987 | 0.6913 | 0.1632 |
| 6402 | 1.562012 | 0.6793 | 0.9981 | 1.0000 | 0.9858 | 0.9987 | 0.6913 | 0.1632 |
| 6403 | 1.561768 | 0.6802 | 0.9995 | 0.9999 | 0.9858 | 0.9987 | 0.6913 | 0.1632 |
| 6404 | 1.561524 | 0.6803 | 0.9997 | 1.0000 | 0.9858 | 0.9987 | 0.6912 | 0.1632 |
| 6405 | 1.561280 | 0.6780 | 0.9965 | 0.9999 | 0.9858 | 0.9987 | 0.6912 | 0.1632 |
| 6406 | 1.561037 | 0.6799 | 0.9993 | 0.9999 | 0.9858 | 0.9987 | 0.6911 | 0.1632 |
| 6407 | 1.560793 | 0.6689 | 0.9831 | 1.0000 | 0.9858 | 0.9987 | 0.6911 | 0.1633 |
| 6408 | 1.560549 | 0.6799 | 0.9993 | 0.9999 | 0.9858 | 0.9987 | 0.6911 | 0.1633 |
| 6409 | 1.560306 | 0.6799 | 0.9995 | 0.9999 | 0.9858 | 0.9987 | 0.6910 | 0.1633 |
| 6410 | 1.560062 | 0.6719 | 0.9876 | 1.0000 | 0.9858 | 0.9987 | 0.6910 | 0.1633 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 6411 | 1.559819 | 0.6760 | 0.9939 | 0.9999 | 0.9858 | 0.9987 | 0.6909 | 0.1633 |
| 6412 | 1.559576 | 0.6741 | 0.9910 | 0.9999 | 0.9859 | 0.9987 | 0.6909 | 0.1633 |
| 6413 | 1.559333 | 0.6799 | 0.9996 | 1.0000 | 0.9859 | 0.9987 | 0.6909 | 0.1634 |
| 6414 | 1.559089 | 0.6797 | 0.9993 | 0.9999 | 0.9859 | 0.9987 | 0.6908 | 0.1634 |
| 6415 | 1.558846 | 0.6685 | 0.9829 | 1.0000 | 0.9859 | 0.9987 | 0.6908 | 0.1634 |
| 6416 | 1.558603 | 0.6796 | 0.9993 | 0.9999 | 0.9859 | 0.9987 | 0.6908 | 0.1634 |
| 6417 | 1.558361 | 0.6792 | 0.9988 | 1.0000 | 0.9859 | 0.9987 | 0.6907 | 0.1634 |
| 6418 | 1.558118 | 0.6712 | 0.9871 | 1.0000 | 0.9859 | 0.9987 | 0.6907 | 0.1634 |
| 6419 | 1.557875 | 0.6797 | 0.9995 | 1.0000 | 0.9859 | 0.9987 | 0.6906 | 0.1635 |
| 6420 | 1.557632 | 0.6794 | 0.9991 | 1.0000 | 0.9859 | 0.9987 | 0.6906 | 0.1635 |
| 6421 | 1.557390 | 0.6798 | 0.9998 | 1.0000 | 0.9859 | 0.9987 | 0.6906 | 0.1635 |
| 6422 | 1.557147 | 0.6788 | 0.9984 | 1.0000 | 0.9859 | 0.9987 | 0.6905 | 0.1635 |
| 6423 | 1.556905 | 0.6750 | 0.9928 | 1.0000 | 0.9860 | 0.9987 | 0.6905 | 0.1635 |
| 6424 | 1.556663 | 0.6791 | 0.9989 | 1.0000 | 0.9860 | 0.9987 | 0.6904 | 0.1635 |
| 6425 | 1.556420 | 0.6617 | 0.9733 | 1.0000 | 0.9860 | 0.9987 | 0.6904 | 0.1636 |
| 6426 | 1.556178 | 0.6769 | 0.9957 | 1.0000 | 0.9860 | 0.9987 | 0.6904 | 0.1636 |
| 6427 | 1.555936 | 0.6795 | 0.9997 | 1.0000 | 0.9860 | 0.9987 | 0.6903 | 0.1636 |
| 6428 | 1.555694 | 0.6796 | 0.9998 | 1.0000 | 0.9860 | 0.9987 | 0.6903 | 0.1636 |
| 6429 | 1.555452 | 0.6796 | 0.9999 | 1.0000 | 0.9860 | 0.9987 | 0.6902 | 0.1636 |
| 6430 | 1.555210 | 0.6795 | 0.9998 | 1.0000 | 0.9860 | 0.9987 | 0.6902 | 0.1636 |
| 6431 | 1.554968 | 0.6792 | 0.9994 | 1.0000 | 0.9860 | 0.9987 | 0.6902 | 0.1637 |
| 6432 | 1.554726 | 0.6696 | 0.9854 | 1.0000 | 0.9860 | 0.9987 | 0.6901 | 0.1637 |
| 6433 | 1.554485 | 0.6784 | 0.9984 | 1.0000 | 0.9860 | 0.9987 | 0.6901 | 0.1637 |
| 6434 | 1.554243 | 0.6569 | 0.9667 | 1.0000 | 0.9860 | 0.9987 | 0.6901 | 0.1637 |
| 6435 | 1.554002 | 0.6785 | 0.9986 | 1.0000 | 0.9861 | 0.9987 | 0.6900 | 0.1637 |
| 6436 | 1.553760 | 0.6771 | 0.9966 | 1.0000 | 0.9861 | 0.9987 | 0.6900 | 0.1637 |
| 6437 | 1.553519 | 0.6792 | 0.9997 | 1.0000 | 0.9861 | 0.9987 | 0.6899 | 0.1638 |
| 6438 | 1.553277 | 0.6791 | 0.9996 | 1.0000 | 0.9861 | 0.9986 | 0.6899 | 0.1638 |
| 6439 | 1.553036 | 0.6754 | 0.9941 | 1.0000 | 0.9861 | 0.9986 | 0.6899 | 0.1638 |
| 6440 | 1.552795 | 0.6787 | 0.9991 | 1.0000 | 0.9861 | 0.9986 | 0.6898 | 0.1638 |
| 6441 | 1.552554 | 0.6691 | 0.9850 | 1.0000 | 0.9861 | 0.9986 | 0.6898 | 0.1638 |
| 6442 | 1.552313 | 0.6698 | 0.9861 | 1.0000 | 0.9861 | 0.9986 | 0.6897 | 0.1638 |
| 6443 | 1.552072 | 0.6256 | 0.9211 | 1.0000 | 0.9861 | 0.9986 | 0.6897 | 0.1639 |
| 6444 | 1.551831 | 0.6682 | 0.9838 | 1.0000 | 0.9861 | 0.9986 | 0.6897 | 0.1639 |
| 6445 | 1.551590 | 0.6783 | 0.9988 | 1.0000 | 0.9861 | 0.9986 | 0.6896 | 0.1639 |
| 6446 | 1.551350 | 0.6783 | 0.9988 | 1.0000 | 0.9861 | 0.9986 | 0.6896 | 0.1639 |
| 6447 | 1.551109 | 0.6615 | 0.9741 | 0.9999 | 0.9861 | 0.9986 | 0.6896 | 0.1639 |
| 6448 | 1.550868 | 0.6781 | 0.9987 | 1.0000 | 0.9861 | 0.9986 | 0.6895 | 0.1639 |
| 6449 | 1.550628 | 0.6720 | 0.9898 | 0.9999 | 0.9861 | 0.9986 | 0.6895 | 0.1640 |
| 6450 | 1.550388 | 0.6786 | 0.9995 | 1.0000 | 0.9861 | 0.9986 | 0.6894 | 0.1640 |
| 6451 | 1.550147 | 0.6786 | 0.9997 | 0.9999 | 0.9861 | 0.9986 | 0.6894 | 0.1640 |
| 6452 | 1.549907 | 0.6783 | 0.9991 | 1.0000 | 0.9862 | 0.9986 | 0.6894 | 0.1640 |
| 6453 | 1.549667 | 0.6654 | 0.9803 | 0.9998 | 0.9862 | 0.9986 | 0.6893 | 0.1640 |
| 6454 | 1.549427 | 0.6783 | 0.9992 | 1.0000 | 0.9862 | 0.9986 | 0.6893 | 0.1640 |
| 6455 | 1.549187 | 0.6784 | 0.9998 | 0.9997 | 0.9862 | 0.9986 | 0.6892 | 0.1641 |
| 6456 | 1.548947 | 0.6786 | 0.9998 | 1.0000 | 0.9862 | 0.9986 | 0.6892 | 0.1641 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 6457 | 1.548707 | 0.6783 | 0.9998 | 0.9996 | 0.9862 | 0.9986 | 0.6892 | 0.1641 |
| 6458 | 1.548467 | 0.6785 | 0.9997 | 1.0000 | 0.9862 | 0.9986 | 0.6891 | 0.1641 |
| 6459 | 1.548227 | 0.6772 | 0.9984 | 0.9995 | 0.9862 | 0.9986 | 0.6891 | 0.1641 |
| 6460 | 1.547988 | 0.6591 | 0.9713 | 1.0000 | 0.9862 | 0.9986 | 0.6891 | 0.1641 |
| 6461 | 1.547748 | 0.6771 | 0.9986 | 0.9992 | 0.9862 | 0.9986 | 0.6890 | 0.1642 |
| 6462 | 1.547509 | 0.6682 | 0.9848 | 0.9999 | 0.9862 | 0.9986 | 0.6890 | 0.1642 |
| 6463 | 1.547269 | 0.6714 | 0.9906 | 0.9989 | 0.9862 | 0.9986 | 0.6889 | 0.1642 |
| 6464 | 1.547030 | 0.6779 | 0.9992 | 0.9999 | 0.9862 | 0.9986 | 0.6889 | 0.1642 |
| 6465 | 1.546790 | 0.6765 | 0.9986 | 0.9986 | 0.9862 | 0.9986 | 0.6889 | 0.1642 |
| 6466 | 1.546551 | 0.6563 | 0.9675 | 0.9999 | 0.9862 | 0.9986 | 0.6888 | 0.1642 |
| 6467 | 1.546312 | 0.6718 | 0.9922 | 0.9981 | 0.9862 | 0.9986 | 0.6888 | 0.1643 |
| 6468 | 1.546073 | 0.6483 | 0.9559 | 0.9999 | 0.9862 | 0.9986 | 0.6887 | 0.1643 |
| 6469 | 1.545834 | 0.6536 | 0.9661 | 0.9975 | 0.9862 | 0.9986 | 0.6887 | 0.1643 |
| 6470 | 1.545595 | 0.6748 | 0.9982 | 0.9968 | 0.9862 | 0.9986 | 0.6887 | 0.1643 |
| 6471 | 1.545356 | 0.6776 | 0.9993 | 0.9998 | 0.9862 | 0.9986 | 0.6886 | 0.1643 |
| 6472 | 1.545117 | 0.6750 | 0.9993 | 0.9960 | 0.9862 | 0.9986 | 0.6886 | 0.1643 |
| 6473 | 1.544879 | 0.6751 | 0.9958 | 0.9997 | 0.9862 | 0.9986 | 0.6886 | 0.1644 |
| 6474 | 1.544640 | 0.6709 | 0.9943 | 0.9951 | 0.9862 | 0.9986 | 0.6885 | 0.1644 |
| 6475 | 1.544402 | 0.6242 | 0.9209 | 0.9997 | 0.9862 | 0.9986 | 0.6885 | 0.1644 |
| 6476 | 1.544163 | 0.6062 | 0.8995 | 0.9940 | 0.9862 | 0.9986 | 0.6884 | 0.1644 |
| 6477 | 1.543925 | 0.6727 | 0.9926 | 0.9996 | 0.9862 | 0.9986 | 0.6884 | 0.1644 |
| 6478 | 1.543686 | 0.6712 | 0.9972 | 0.9928 | 0.9862 | 0.9986 | 0.6884 | 0.1644 |
| 6479 | 1.543448 | 0.6764 | 0.9982 | 0.9995 | 0.9862 | 0.9986 | 0.6883 | 0.1645 |
| 6480 | 1.543210 | 0.6707 | 0.9981 | 0.9914 | 0.9862 | 0.9986 | 0.6883 | 0.1645 |
| 6481 | 1.542972 | 0.6403 | 0.9540 | 0.9902 | 0.9862 | 0.9986 | 0.6883 | 0.1645 |
| 6482 | 1.542734 | 0.6689 | 0.9875 | 0.9994 | 0.9862 | 0.9986 | 0.6882 | 0.1645 |
| 6483 | 1.542496 | 0.6678 | 0.9961 | 0.9892 | 0.9862 | 0.9986 | 0.6882 | 0.1645 |
| 6484 | 1.542258 | 0.6205 | 0.9162 | 0.9993 | 0.9862 | 0.9986 | 0.6881 | 0.1645 |
| 6485 | 1.542020 | 0.6447 | 0.9627 | 0.9881 | 0.9862 | 0.9986 | 0.6881 | 0.1646 |
| 6486 | 1.541782 | 0.6664 | 0.9842 | 0.9992 | 0.9862 | 0.9986 | 0.6881 | 0.1646 |
| 6487 | 1.541545 | 0.6425 | 0.9608 | 0.9869 | 0.9862 | 0.9986 | 0.6880 | 0.1646 |
| 6488 | 1.541307 | 0.6670 | 0.9980 | 0.9863 | 0.9862 | 0.9986 | 0.6880 | 0.1646 |
| 6489 | 1.541070 | 0.6684 | 0.9875 | 0.9991 | 0.9862 | 0.9986 | 0.6880 | 0.1646 |
| 6490 | 1.540832 | 0.6652 | 0.9954 | 0.9864 | 0.9862 | 0.9986 | 0.6879 | 0.1646 |
| 6491 | 1.540595 | 0.6605 | 0.9759 | 0.9990 | 0.9862 | 0.9986 | 0.6879 | 0.1647 |
| 6492 | 1.540357 | 0.6670 | 0.9985 | 0.9862 | 0.9862 | 0.9986 | 0.6878 | 0.1647 |
| 6493 | 1.540120 | 0.6629 | 0.9919 | 0.9867 | 0.9862 | 0.9986 | 0.6878 | 0.1647 |
| 6494 | 1.539883 | 0.6760 | 0.9990 | 0.9991 | 0.9862 | 0.9986 | 0.6878 | 0.1647 |
| 6495 | 1.539646 | 0.6671 | 0.9969 | 0.9881 | 0.9862 | 0.9986 | 0.6877 | 0.1647 |
| 6496 | 1.539409 | 0.6541 | 0.9668 | 0.9991 | 0.9861 | 0.9986 | 0.6877 | 0.1647 |
| 6497 | 1.539172 | 0.6151 | 0.9180 | 0.9895 | 0.9861 | 0.9986 | 0.6876 | 0.1648 |
| 6498 | 1.538935 | 0.6693 | 0.9970 | 0.9914 | 0.9861 | 0.9986 | 0.6876 | 0.1648 |
| 6499 | 1.538698 | 0.6760 | 0.9990 | 0.9994 | 0.9861 | 0.9986 | 0.6876 | 0.1648 |
| 6500 | 1.538462 | 0.6691 | 0.9942 | 0.9940 | 0.9861 | 0.9986 | 0.6875 | 0.1648 |
| 6501 | 1.538225 | 0.6728 | 0.9942 | 0.9996 | 0.9861 | 0.9986 | 0.6875 | 0.1648 |
| 6502 | 1.537988 | 0.6739 | 0.9988 | 0.9967 | 0.9861 | 0.9986 | 0.6875 | 0.1648 |



|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 6503 | 1.537752 | 0.6747 | 0.9970 | 0.9998 | 0.9861 | 0.9986 | 0.6874 | 0.1648 |
| 6504 | 1.537515 | 0.6355 | 0.9409 | 0.9979 | 0.9860 | 0.9986 | 0.6874 | 0.1649 |
| 6505 | 1.537279 | 0.5923 | 0.8792 | 0.9954 | 0.9860 | 0.9986 | 0.6873 | 0.1649 |
| 6506 | 1.537043 | 0.6703 | 0.9915 | 0.9990 | 0.9860 | 0.9986 | 0.6873 | 0.1649 |
| 6507 | 1.536807 | 0.6499 | 0.9678 | 0.9923 | 0.9860 | 0.9986 | 0.6873 | 0.1649 |
| 6508 | 1.536570 | 0.6668 | 0.9961 | 0.9893 | 0.9860 | 0.9986 | 0.6872 | 0.1649 |
| 6509 | 1.536334 | 0.6733 | 0.9966 | 0.9985 | 0.9860 | 0.9986 | 0.6872 | 0.1649 |
| 6510 | 1.536098 | 0.6398 | 0.9576 | 0.9876 | 0.9860 | 0.9986 | 0.6872 | 0.1650 |
| 6511 | 1.535862 | 0.6304 | 0.9460 | 0.9852 | 0.9859 | 0.9986 | 0.6871 | 0.1650 |
| 6512 | 1.535627 | 0.6658 | 0.9854 | 0.9989 | 0.9859 | 0.9986 | 0.6870 | 0.1650 |
| 6513 | 1.535391 | 0.6619 | 0.9948 | 0.9838 | 0.9859 | 0.9986 | 0.6869 | 0.1650 |
| 6514 | 1.535155 | 0.5966 | 0.8966 | 0.9841 | 0.9859 | 0.9986 | 0.6869 | 0.1651 |
| 6515 | 1.534919 | 0.6082 | 0.9016 | 0.9977 | 0.9858 | 0.9986 | 0.6868 | 0.1651 |
| 6516 | 1.534684 | 0.6599 | 0.9923 | 0.9838 | 0.9858 | 0.9986 | 0.6867 | 0.1651 |
| 6517 | 1.534448 | 0.6601 | 0.9939 | 0.9826 | 0.9858 | 0.9986 | 0.6867 | 0.1651 |
| 6518 | 1.534213 | 0.6627 | 0.9964 | 0.9840 | 0.9858 | 0.9986 | 0.6866 | 0.1652 |
| 6519 | 1.533978 | 0.6153 | 0.9121 | 0.9983 | 0.9857 | 0.9986 | 0.6865 | 0.1652 |
| 6520 | 1.533742 | 0.6617 | 0.9942 | 0.9850 | 0.9857 | 0.9986 | 0.6864 | 0.1652 |
| 6521 | 1.533507 | 0.6648 | 0.9981 | 0.9859 | 0.9857 | 0.9986 | 0.6864 | 0.1652 |
| 6522 | 1.533272 | 0.6656 | 0.9986 | 0.9867 | 0.9857 | 0.9986 | 0.6863 | 0.1653 |
| 6523 | 1.533037 | 0.6613 | 0.9807 | 0.9984 | 0.9856 | 0.9986 | 0.6862 | 0.1653 |
| 6524 | 1.532802 | 0.6634 | 0.9934 | 0.9890 | 0.9856 | 0.9986 | 0.6861 | 0.1653 |
| 6525 | 1.532567 | 0.6655 | 0.9955 | 0.9902 | 0.9856 | 0.9986 | 0.6861 | 0.1653 |
| 6526 | 1.532332 | 0.6573 | 0.9818 | 0.9916 | 0.9855 | 0.9986 | 0.6860 | 0.1654 |
| 6527 | 1.532097 | 0.6663 | 0.9884 | 0.9988 | 0.9855 | 0.9986 | 0.6859 | 0.1654 |
| 6528 | 1.531863 | 0.6562 | 0.9796 | 0.9924 | 0.9855 | 0.9986 | 0.6859 | 0.1654 |
| 6529 | 1.531628 | 0.6614 | 0.9858 | 0.9942 | 0.9854 | 0.9986 | 0.6858 | 0.1654 |
| 6530 | 1.531394 | 0.4844 | 0.7214 | 0.9952 | 0.9854 | 0.9986 | 0.6857 | 0.1654 |
| 6531 | 1.531159 | 0.6519 | 0.9701 | 0.9962 | 0.9853 | 0.9986 | 0.6856 | 0.1655 |
| 6532 | 1.530925 | 0.6558 | 0.9732 | 0.9989 | 0.9853 | 0.9986 | 0.6856 | 0.1655 |
| 6533 | 1.530690 | 0.6543 | 0.9729 | 0.9971 | 0.9853 | 0.9986 | 0.6855 | 0.1655 |
| 6534 | 1.530456 | 0.5952 | 0.8847 | 0.9977 | 0.9852 | 0.9986 | 0.6854 | 0.1655 |
| 6535 | 1.530222 | 0.6034 | 0.8965 | 0.9982 | 0.9852 | 0.9986 | 0.6853 | 0.1656 |
| 6536 | 1.529988 | 0.6511 | 0.9676 | 0.9982 | 0.9852 | 0.9986 | 0.6853 | 0.1656 |
| 6537 | 1.529754 | 0.5843 | 0.8680 | 0.9986 | 0.9851 | 0.9986 | 0.6852 | 0.1656 |
| 6538 | 1.529520 | 0.6029 | 0.8956 | 0.9990 | 0.9851 | 0.9986 | 0.6851 | 0.1656 |
| 6539 | 1.529286 | 0.6684 | 0.9923 | 0.9997 | 0.9850 | 0.9986 | 0.6851 | 0.1657 |
| 6540 | 1.529052 | 0.6626 | 0.9846 | 0.9989 | 0.9850 | 0.9986 | 0.6850 | 0.1657 |
| 6541 | 1.528818 | 0.5300 | 0.7875 | 0.9992 | 0.9849 | 0.9986 | 0.6849 | 0.1657 |
| 6542 | 1.528585 | 0.6632 | 0.9861 | 0.9986 | 0.9849 | 0.9986 | 0.6848 | 0.1657 |
| 6543 | 1.528351 | 0.6653 | 0.9888 | 0.9991 | 0.9848 | 0.9986 | 0.6848 | 0.1658 |
| 6544 | 1.528117 | 0.6508 | 0.9676 | 0.9990 | 0.9848 | 0.9986 | 0.6847 | 0.1658 |
| 6545 | 1.527884 | 0.6238 | 0.9281 | 0.9984 | 0.9847 | 0.9986 | 0.6846 | 0.1658 |
| 6546 | 1.527650 | 0.6563 | 0.9761 | 0.9990 | 0.9846 | 0.9986 | 0.6845 | 0.1658 |
| 6547 | 1.527417 | 0.5142 | 0.7650 | 0.9989 | 0.9846 | 0.9986 | 0.6845 | 0.1659 |
| 6548 | 1.527184 | 0.6604 | 0.9833 | 0.9981 | 0.9845 | 0.9986 | 0.6844 | 0.1659 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 6549 | 1.526951 | 0.6597 | 0.9823 | 0.9983 | 0.9845 | 0.9986 | 0.6843 | 0.1659 |
| 6550 | 1.526718 | 0.5089 | 0.7569 | 0.9997 | 0.9844 | 0.9986 | 0.6843 | 0.1659 |
| 6551 | 1.526485 | 0.5830 | 0.8685 | 0.9982 | 0.9843 | 0.9986 | 0.6842 | 0.1660 |
| 6552 | 1.526252 | 0.6108 | 0.9100 | 0.9983 | 0.9842 | 0.9986 | 0.6841 | 0.1660 |
| 6553 | 1.526019 | 0.5974 | 0.8902 | 0.9985 | 0.9841 | 0.9986 | 0.6840 | 0.1660 |
| 6554 | 1.525786 | 0.5346 | 0.7956 | 0.9998 | 0.9840 | 0.9985 | 0.6840 | 0.1660 |
| 6555 | 1.525553 | 0.6074 | 0.9052 | 0.9986 | 0.9839 | 0.9985 | 0.6839 | 0.1661 |
| 6556 | 1.525320 | 0.6053 | 0.9021 | 0.9988 | 0.9838 | 0.9985 | 0.6838 | 0.1661 |
| 6557 | 1.525088 | 0.5666 | 0.8445 | 0.9989 | 0.9838 | 0.9985 | 0.6837 | 0.1661 |
| 6558 | 1.524855 | 0.6582 | 0.9806 | 0.9995 | 0.9837 | 0.9985 | 0.6837 | 0.1661 |
| 6559 | 1.524623 | 0.4712 | 0.7023 | 0.9992 | 0.9836 | 0.9985 | 0.6836 | 0.1662 |
| 6560 | 1.524390 | 0.5716 | 0.8519 | 0.9996 | 0.9835 | 0.9985 | 0.6835 | 0.1662 |
| 6561 | 1.524158 | 0.6658 | 0.9925 | 0.9994 | 0.9834 | 0.9985 | 0.6835 | 0.1662 |
| 6562 | 1.523926 | 0.6674 | 0.9949 | 0.9998 | 0.9833 | 0.9985 | 0.6834 | 0.1662 |
| 6563 | 1.523693 | 0.6451 | 0.9619 | 0.9996 | 0.9832 | 0.9985 | 0.6833 | 0.1662 |
| 6564 | 1.523461 | 0.5627 | 0.8392 | 0.9997 | 0.9831 | 0.9985 | 0.6832 | 0.1663 |
| 6565 | 1.523229 | 0.6606 | 0.9854 | 0.9998 | 0.9830 | 0.9985 | 0.6832 | 0.1663 |
| 6566 | 1.522997 | 0.6674 | 0.9957 | 0.9998 | 0.9829 | 0.9985 | 0.6831 | 0.1663 |
| 6567 | 1.522765 | 0.6685 | 0.9974 | 0.9999 | 0.9828 | 0.9985 | 0.6830 | 0.1663 |
| 6568 | 1.522533 | 0.6565 | 0.9797 | 1.0000 | 0.9827 | 0.9985 | 0.6830 | 0.1664 |
| 6569 | 1.522302 | 0.6564 | 0.9798 | 0.9999 | 0.9826 | 0.9985 | 0.6829 | 0.1664 |
| 6570 | 1.522070 | 0.6555 | 0.9786 | 1.0000 | 0.9825 | 0.9985 | 0.6828 | 0.1664 |
| 6571 | 1.521838 | 0.4545 | 0.6786 | 1.0000 | 0.9823 | 0.9985 | 0.6827 | 0.1664 |
| 6572 | 1.521607 | 0.5918 | 0.8839 | 1.0000 | 0.9822 | 0.9985 | 0.6827 | 0.1665 |
| 6573 | 1.521375 | 0.6616 | 0.9884 | 1.0000 | 0.9821 | 0.9985 | 0.6826 | 0.1665 |
| 6574 | 1.521144 | 0.6652 | 0.9941 | 1.0000 | 0.9819 | 0.9985 | 0.6825 | 0.1665 |
| 6575 | 1.520913 | 0.6644 | 0.9931 | 1.0000 | 0.9818 | 0.9985 | 0.6825 | 0.1665 |
| 6576 | 1.520681 | 0.6382 | 0.9541 | 1.0000 | 0.9817 | 0.9985 | 0.6824 | 0.1666 |
| 6577 | 1.520450 | 0.4664 | 0.6974 | 1.0000 | 0.9815 | 0.9985 | 0.6823 | 0.1666 |
| 6578 | 1.520219 | 0.6507 | 0.9733 | 1.0000 | 0.9814 | 0.9985 | 0.6822 | 0.1666 |
| 6579 | 1.519988 | 0.5575 | 0.8341 | 1.0000 | 0.9813 | 0.9985 | 0.6822 | 0.1666 |
| 6580 | 1.519757 | 0.5848 | 0.8751 | 1.0000 | 0.9812 | 0.9985 | 0.6821 | 0.1667 |
| 6581 | 1.519526 | 0.5429 | 0.8126 | 1.0000 | 0.9810 | 0.9985 | 0.6820 | 0.1667 |
| 6582 | 1.519295 | 0.4422 | 0.6620 | 1.0000 | 0.9809 | 0.9985 | 0.6820 | 0.1667 |
| 6583 | 1.519064 | 0.5607 | 0.8397 | 1.0000 | 0.9807 | 0.9985 | 0.6819 | 0.1667 |
| 6584 | 1.518834 | 0.4830 | 0.7235 | 1.0000 | 0.9806 | 0.9985 | 0.6818 | 0.1668 |
| 6585 | 1.518603 | 0.5831 | 0.8737 | 1.0000 | 0.9804 | 0.9985 | 0.6817 | 0.1668 |
| 6586 | 1.518372 | 0.4615 | 0.6917 | 1.0000 | 0.9803 | 0.9985 | 0.6817 | 0.1668 |
| 6587 | 1.518142 | 0.6255 | 0.9376 | 1.0000 | 0.9801 | 0.9985 | 0.6816 | 0.1668 |
| 6588 | 1.517911 | 0.6329 | 0.9490 | 1.0000 | 0.9800 | 0.9985 | 0.6815 | 0.1668 |
| 6589 | 1.517681 | 0.3568 | 0.5352 | 1.0000 | 0.9799 | 0.9985 | 0.6815 | 0.1669 |
| 6590 | 1.517451 | 0.6214 | 0.9323 | 1.0000 | 0.9797 | 0.9985 | 0.6814 | 0.1669 |
| 6591 | 1.517220 | 0.5320 | 0.7984 | 1.0000 | 0.9795 | 0.9985 | 0.6813 | 0.1669 |
| 6592 | 1.516990 | 0.6318 | 0.9485 | 1.0000 | 0.9792 | 0.9985 | 0.6812 | 0.1669 |
| 6593 | 1.516760 | 0.3628 | 0.5449 | 1.0000 | 0.9790 | 0.9985 | 0.6812 | 0.1670 |
| 6594 | 1.516530 | 0.5993 | 0.9004 | 1.0000 | 0.9788 | 0.9985 | 0.6811 | 0.1670 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 6595 | 1.516300 | 0.3568 | 0.5363 | 1.0000 | 0.9785 | 0.9985 | 0.6810 | 0.1670 |
| 6596 | 1.516070 | 0.6332 | 0.9519 | 1.0000 | 0.9783 | 0.9985 | 0.6810 | 0.1670 |
| 6597 | 1.515841 | 0.6529 | 0.9819 | 1.0000 | 0.9780 | 0.9985 | 0.6809 | 0.1671 |
| 6598 | 1.515611 | 0.5638 | 0.8481 | 1.0000 | 0.9778 | 0.9985 | 0.6808 | 0.1671 |
| 6599 | 1.515381 | 0.6544 | 0.9849 | 1.0000 | 0.9776 | 0.9985 | 0.6807 | 0.1671 |
| 6600 | 1.515152 | 0.6434 | 0.9687 | 1.0000 | 0.9773 | 0.9985 | 0.6807 | 0.1671 |
| 6601 | 1.514922 | 0.3860 | 0.5814 | 1.0000 | 0.9771 | 0.9985 | 0.6806 | 0.1672 |
| 6602 | 1.514693 | 0.6407 | 0.9653 | 1.0000 | 0.9768 | 0.9985 | 0.6805 | 0.1672 |
| 6603 | 1.514463 | 0.6384 | 0.9621 | 1.0000 | 0.9766 | 0.9985 | 0.6805 | 0.1672 |
| 6604 | 1.514234 | 0.3992 | 0.6018 | 1.0000 | 0.9763 | 0.9985 | 0.6804 | 0.1672 |
| 6605 | 1.514005 | 0.4146 | 0.6253 | 1.0000 | 0.9760 | 0.9985 | 0.6803 | 0.1673 |
| 6606 | 1.513775 | 0.4013 | 0.6055 | 1.0000 | 0.9758 | 0.9985 | 0.6802 | 0.1673 |
| 6607 | 1.513546 | 0.4817 | 0.7270 | 1.0000 | 0.9755 | 0.9985 | 0.6802 | 0.1673 |
| 6608 | 1.513317 | 0.6269 | 0.9465 | 1.0000 | 0.9753 | 0.9985 | 0.6801 | 0.1673 |
| 6609 | 1.513088 | 0.4908 | 0.7414 | 1.0000 | 0.9750 | 0.9985 | 0.6800 | 0.1673 |
| 6610 | 1.512859 | 0.3323 | 0.5021 | 1.0000 | 0.9748 | 0.9985 | 0.6800 | 0.1674 |
| 6611 | 1.512630 | 0.5669 | 0.8570 | 1.0000 | 0.9744 | 0.9985 | 0.6799 | 0.1674 |
| 6612 | 1.512402 | 0.3461 | 0.5234 | 1.0000 | 0.9741 | 0.9985 | 0.6798 | 0.1674 |
| 6613 | 1.512173 | 0.6373 | 0.9644 | 1.0000 | 0.9737 | 0.9985 | 0.6798 | 0.1674 |
| 6614 | 1.511944 | 0.6474 | 0.9801 | 1.0000 | 0.9734 | 0.9985 | 0.6797 | 0.1675 |
| 6615 | 1.511716 | 0.5611 | 0.8499 | 1.0000 | 0.9730 | 0.9985 | 0.6796 | 0.1675 |
| 6616 | 1.511487 | 0.6312 | 0.9564 | 1.0000 | 0.9726 | 0.9985 | 0.6795 | 0.1675 |
| 6617 | 1.511259 | 0.5206 | 0.7892 | 1.0000 | 0.9723 | 0.9985 | 0.6795 | 0.1675 |
| 6618 | 1.511031 | 0.4466 | 0.6774 | 1.0000 | 0.9719 | 0.9985 | 0.6794 | 0.1676 |
| 6619 | 1.510802 | 0.6328 | 0.9601 | 1.0000 | 0.9716 | 0.9985 | 0.6793 | 0.1676 |
| 6620 | 1.510574 | 0.5458 | 0.8286 | 1.0000 | 0.9712 | 0.9985 | 0.6793 | 0.1676 |
| 6621 | 1.510346 | 0.6336 | 0.9624 | 1.0000 | 0.9709 | 0.9985 | 0.6792 | 0.1676 |
| 6622 | 1.510118 | 0.4266 | 0.6482 | 1.0000 | 0.9705 | 0.9985 | 0.6791 | 0.1677 |
| 6623 | 1.509890 | 0.6321 | 0.9609 | 1.0000 | 0.9701 | 0.9985 | 0.6790 | 0.1677 |
| 6624 | 1.509662 | 0.6287 | 0.9562 | 1.0000 | 0.9698 | 0.9985 | 0.6790 | 0.1677 |
| 6625 | 1.509434 | 0.6060 | 0.9222 | 1.0000 | 0.9694 | 0.9985 | 0.6789 | 0.1677 |
| 6626 | 1.509206 | 0.4318 | 0.6574 | 1.0000 | 0.9690 | 0.9985 | 0.6788 | 0.1677 |
| 6627 | 1.508978 | 0.2852 | 0.4344 | 1.0000 | 0.9687 | 0.9985 | 0.6788 | 0.1678 |
| 6628 | 1.508751 | 0.1584 | 0.2415 | 1.0000 | 0.9683 | 0.9985 | 0.6787 | 0.1678 |
| 6629 | 1.508523 | 0.2842 | 0.4334 | 1.0000 | 0.9680 | 0.9985 | 0.6786 | 0.1678 |
| 6630 | 1.508296 | 0.2968 | 0.4528 | 1.0000 | 0.9676 | 0.9985 | 0.6786 | 0.1678 |
| 6631 | 1.508068 | 0.6054 | 0.9239 | 1.0000 | 0.9672 | 0.9985 | 0.6785 | 0.1679 |
| 6632 | 1.507841 | 0.5976 | 0.9124 | 1.0000 | 0.9669 | 0.9985 | 0.6784 | 0.1679 |
| 6633 | 1.507613 | 0.5590 | 0.8539 | 1.0000 | 0.9665 | 0.9985 | 0.6783 | 0.1679 |
| 6634 | 1.507386 | 0.4994 | 0.7632 | 1.0000 | 0.9662 | 0.9985 | 0.6783 | 0.1679 |
| 6635 | 1.507159 | 0.3055 | 0.4670 | 1.0000 | 0.9658 | 0.9985 | 0.6782 | 0.1680 |
| 6636 | 1.506932 | 0.6117 | 0.9357 | 1.0000 | 0.9655 | 0.9985 | 0.6781 | 0.1680 |
| 6637 | 1.506705 | 0.6087 | 0.9316 | 1.0000 | 0.9651 | 0.9985 | 0.6781 | 0.1680 |
| 6638 | 1.506478 | 0.6417 | 0.9825 | 1.0000 | 0.9648 | 0.9985 | 0.6780 | 0.1680 |
| 6639 | 1.506251 | 0.5714 | 0.8752 | 1.0000 | 0.9644 | 0.9985 | 0.6779 | 0.1681 |
| 6640 | 1.506024 | 0.6205 | 0.9509 | 1.0000 | 0.9641 | 0.9985 | 0.6779 | 0.1681 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 6641 | 1.505797 | 0.4197 | 0.6437 | 1.0000 | 0.9635 | 0.9985 | 0.6778 | 0.1681 |
| 6642 | 1.505571 | 0.5685 | 0.8725 | 1.0000 | 0.9629 | 0.9985 | 0.6777 | 0.1681 |
| 6643 | 1.505344 | 0.5624 | 0.8638 | 1.0000 | 0.9623 | 0.9985 | 0.6776 | 0.1681 |
| 6644 | 1.505117 | 0.4040 | 0.6209 | 1.0000 | 0.9617 | 0.9985 | 0.6776 | 0.1682 |
| 6645 | 1.504891 | 0.2455 | 0.3776 | 1.0000 | 0.9611 | 0.9985 | 0.6775 | 0.1682 |
| 6646 | 1.504664 | 0.2264 | 0.3485 | 1.0000 | 0.9605 | 0.9985 | 0.6774 | 0.1682 |
| 6647 | 1.504438 | 0.2564 | 0.3949 | 1.0000 | 0.9599 | 0.9985 | 0.6774 | 0.1682 |
| 6648 | 1.504212 | 0.5105 | 0.7869 | 1.0000 | 0.9593 | 0.9985 | 0.6773 | 0.1683 |
| 6649 | 1.503986 | 0.1880 | 0.2899 | 1.0000 | 0.9587 | 0.9985 | 0.6772 | 0.1683 |
| 6650 | 1.503759 | 0.1695 | 0.2616 | 1.0000 | 0.9582 | 0.9985 | 0.6772 | 0.1683 |
| 6651 | 1.503533 | 0.2372 | 0.3664 | 1.0000 | 0.9575 | 0.9985 | 0.6771 | 0.1683 |
| 6652 | 1.503307 | 0.4105 | 0.6347 | 1.0000 | 0.9567 | 0.9985 | 0.6770 | 0.1684 |
| 6653 | 1.503081 | 0.3031 | 0.4691 | 1.0000 | 0.9560 | 0.9985 | 0.6770 | 0.1684 |
| 6654 | 1.502855 | 0.2140 | 0.3314 | 1.0000 | 0.9553 | 0.9985 | 0.6769 | 0.1684 |
| 6655 | 1.502630 | 0.5582 | 0.8653 | 1.0000 | 0.9546 | 0.9985 | 0.6768 | 0.1684 |
| 6656 | 1.502404 | 0.5863 | 0.9097 | 1.0000 | 0.9539 | 0.9985 | 0.6767 | 0.1685 |
| 6657 | 1.502178 | 0.5617 | 0.8722 | 1.0000 | 0.9532 | 0.9985 | 0.6767 | 0.1685 |
| 6658 | 1.501953 | 0.2282 | 0.3547 | 0.9999 | 0.9525 | 0.9985 | 0.6766 | 0.1685 |
| 6659 | 1.501727 | 0.3537 | 0.5502 | 1.0000 | 0.9518 | 0.9985 | 0.6765 | 0.1685 |
| 6660 | 1.501502 | 0.5351 | 0.8330 | 0.9999 | 0.9511 | 0.9985 | 0.6765 | 0.1685 |
| 6661 | 1.501276 | 0.5962 | 0.9290 | 1.0000 | 0.9503 | 0.9985 | 0.6764 | 0.1686 |
| 6662 | 1.501051 | 0.6156 | 0.9602 | 0.9999 | 0.9494 | 0.9985 | 0.6763 | 0.1686 |
| 6663 | 1.500825 | 0.3957 | 0.6179 | 1.0000 | 0.9486 | 0.9985 | 0.6763 | 0.1686 |
| 6664 | 1.500600 | 0.4574 | 0.7149 | 0.9999 | 0.9477 | 0.9984 | 0.6762 | 0.1686 |
| 6665 | 1.500375 | 0.6197 | 0.9696 | 1.0000 | 0.9468 | 0.9984 | 0.6761 | 0.1687 |
| 6666 | 1.500150 | 0.6134 | 0.9607 | 0.9999 | 0.9460 | 0.9984 | 0.6761 | 0.1687 |
| 6667 | 1.499925 | 0.5396 | 0.8459 | 1.0000 | 0.9451 | 0.9984 | 0.6760 | 0.1687 |
| 6668 | 1.499700 | 0.2224 | 0.3491 | 0.9999 | 0.9443 | 0.9984 | 0.6759 | 0.1687 |
| 6669 | 1.499475 | 0.5022 | 0.7889 | 1.0000 | 0.9434 | 0.9984 | 0.6758 | 0.1688 |
| 6670 | 1.499250 | 0.1785 | 0.2807 | 0.9999 | 0.9426 | 0.9984 | 0.6758 | 0.1688 |
| 6671 | 1.499026 | 0.5108 | 0.8044 | 0.9998 | 0.9414 | 0.9984 | 0.6757 | 0.1688 |
| 6672 | 1.498801 | 0.4998 | 0.7880 | 0.9999 | 0.9402 | 0.9984 | 0.6756 | 0.1688 |
| 6673 | 1.498576 | 0.3277 | 0.5175 | 0.9998 | 0.9390 | 0.9984 | 0.6756 | 0.1688 |
| 6674 | 1.498352 | 0.4968 | 0.7856 | 0.9997 | 0.9379 | 0.9984 | 0.6755 | 0.1689 |
| 6675 | 1.498127 | 0.1460 | 0.2312 | 0.9997 | 0.9367 | 0.9984 | 0.6754 | 0.1689 |
| 6676 | 1.497903 | 0.2867 | 0.4547 | 0.9995 | 0.9355 | 0.9984 | 0.6754 | 0.1689 |
| 6677 | 1.497679 | 0.2594 | 0.4121 | 0.9993 | 0.9343 | 0.9984 | 0.6753 | 0.1689 |
| 6678 | 1.497454 | 0.5551 | 0.8833 | 0.9989 | 0.9332 | 0.9984 | 0.6752 | 0.1690 |
| 6679 | 1.497230 | 0.5847 | 0.9322 | 0.9984 | 0.9320 | 0.9984 | 0.6752 | 0.1690 |
| 6680 | 1.497006 | 0.5236 | 0.8349 | 0.9996 | 0.9308 | 0.9984 | 0.6751 | 0.1690 |
| 6681 | 1.496782 | 0.4106 | 0.6556 | 1.0000 | 0.9292 | 0.9984 | 0.6750 | 0.1690 |
| 6682 | 1.496558 | 0.0309 | 0.0494 | 0.9999 | 0.9275 | 0.9984 | 0.6750 | 0.1691 |
| 6683 | 1.496334 | 0.2342 | 0.3754 | 0.9999 | 0.9259 | 0.9984 | 0.6749 | 0.1691 |
| 6684 | 1.496110 | 0.4283 | 0.6877 | 1.0000 | 0.9243 | 0.9984 | 0.6748 | 0.1691 |
| 6685 | 1.495886 | 0.1063 | 0.1711 | 0.9998 | 0.9227 | 0.9984 | 0.6747 | 0.1691 |
| 6686 | 1.495663 | 0.3833 | 0.6179 | 0.9998 | 0.9210 | 0.9984 | 0.6747 | 0.1692 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 6687 | 1.495439 | 0.2512 | 0.4057 | 1.0000 | 0.9194 | 0.9984 | 0.6746 | 0.1692 |
| 6688 | 1.495215 | 0.1572 | 0.2544 | 0.9997 | 0.9178 | 0.9984 | 0.6745 | 0.1692 |
| 6689 | 1.494992 | 0.1431 | 0.2321 | 0.9997 | 0.9162 | 0.9984 | 0.6745 | 0.1692 |
| 6690 | 1.494768 | 0.4893 | 0.7948 | 0.9997 | 0.9146 | 0.9984 | 0.6744 | 0.1692 |
| 6691 | 1.494545 | 0.5331 | 0.8683 | 0.9997 | 0.9122 | 0.9984 | 0.6743 | 0.1693 |
| 6692 | 1.494322 | 0.2647 | 0.4323 | 0.9996 | 0.9099 | 0.9984 | 0.6743 | 0.1693 |
| 6693 | 1.494098 | 0.1278 | 0.2093 | 0.9997 | 0.9075 | 0.9984 | 0.6742 | 0.1693 |
| 6694 | 1.493875 | 0.4084 | 0.6706 | 0.9997 | 0.9051 | 0.9984 | 0.6741 | 0.1693 |
| 6695 | 1.493652 | 0.5572 | 0.9173 | 0.9997 | 0.9028 | 0.9984 | 0.6741 | 0.1694 |
| 6696 | 1.493429 | 0.4541 | 0.7496 | 0.9997 | 0.9005 | 0.9984 | 0.6740 | 0.1694 |
| 6697 | 1.493206 | 0.2831 | 0.4686 | 0.9997 | 0.8981 | 0.9984 | 0.6739 | 0.1694 |
| 6698 | 1.492983 | 0.2071 | 0.3438 | 0.9998 | 0.8958 | 0.9984 | 0.6739 | 0.1694 |
| 6699 | 1.492760 | 0.2257 | 0.3757 | 0.9998 | 0.8935 | 0.9984 | 0.6738 | 0.1695 |
| 6700 | 1.492537 | 0.2555 | 0.4265 | 0.9997 | 0.8911 | 0.9984 | 0.6737 | 0.1695 |
| 6701 | 1.492315 | 0.3611 | 0.6041 | 0.9999 | 0.8888 | 0.9984 | 0.6737 | 0.1695 |
| 6702 | 1.492092 | 0.1243 | 0.2086 | 0.9998 | 0.8864 | 0.9984 | 0.6736 | 0.1695 |
| 6703 | 1.491869 | 0.2519 | 0.4239 | 0.9998 | 0.8840 | 0.9984 | 0.6735 | 0.1695 |
| 6704 | 1.491647 | 0.2380 | 0.4015 | 1.0000 | 0.8816 | 0.9984 | 0.6734 | 0.1696 |
| 6705 | 1.491424 | 0.0041 | 0.0069 | 1.0000 | 0.8792 | 0.9984 | 0.6734 | 0.1696 |
| 6706 | 1.491202 | 0.2514 | 0.4266 | 0.9999 | 0.8769 | 0.9984 | 0.6733 | 0.1696 |
| 6707 | 1.490980 | 0.3632 | 0.6179 | 0.9999 | 0.8745 | 0.9984 | 0.6732 | 0.1696 |
| 6708 | 1.490757 | 0.4599 | 0.7845 | 1.0000 | 0.8722 | 0.9984 | 0.6732 | 0.1697 |
| 6709 | 1.490535 | 0.4358 | 0.7457 | 0.9999 | 0.8698 | 0.9984 | 0.6731 | 0.1697 |
| 6710 | 1.490313 | 0.4630 | 0.7944 | 0.9999 | 0.8675 | 0.9984 | 0.6730 | 0.1697 |
| 6711 | 1.490091 | 0.3816 | 0.6569 | 0.9999 | 0.8645 | 0.9984 | 0.6730 | 0.1697 |
| 6712 | 1.489869 | 0.1661 | 0.2869 | 1.0000 | 0.8616 | 0.9984 | 0.6729 | 0.1697 |
| 6713 | 1.489647 | 0.0072 | 0.0125 | 0.9999 | 0.8587 | 0.9984 | 0.6728 | 0.1698 |
| 6714 | 1.489425 | 0.1897 | 0.3301 | 0.9999 | 0.8557 | 0.9984 | 0.6728 | 0.1698 |
| 6715 | 1.489203 | 0.4183 | 0.7304 | 0.9999 | 0.8528 | 0.9984 | 0.6727 | 0.1698 |
| 6716 | 1.488982 | 0.2051 | 0.3593 | 0.9999 | 0.8499 | 0.9984 | 0.6726 | 0.1698 |
| 6717 | 1.488760 | 0.2443 | 0.4297 | 0.9999 | 0.8470 | 0.9984 | 0.6726 | 0.1699 |
| 6718 | 1.488538 | 0.3660 | 0.6459 | 0.9999 | 0.8441 | 0.9984 | 0.6725 | 0.1699 |
| 6719 | 1.488317 | 0.0596 | 0.1056 | 0.9997 | 0.8412 | 0.9984 | 0.6724 | 0.1699 |
| 6720 | 1.488095 | 0.1414 | 0.2513 | 0.9999 | 0.8384 | 0.9984 | 0.6724 | 0.1699 |
| 6721 | 1.487874 | 0.0194 | 0.0346 | 0.9999 | 0.8342 | 0.9984 | 0.6723 | 0.1700 |
| 6722 | 1.487652 | 0.2048 | 0.3676 | 1.0000 | 0.8301 | 0.9984 | 0.6722 | 0.1700 |
| 6723 | 1.487431 | 0.0693 | 0.1250 | 0.9997 | 0.8259 | 0.9984 | 0.6722 | 0.1700 |
| 6724 | 1.487210 | 0.0319 | 0.0578 | 0.9998 | 0.8218 | 0.9984 | 0.6721 | 0.1700 |
| 6725 | 1.486989 | 0.0589 | 0.1073 | 0.9998 | 0.8177 | 0.9984 | 0.6720 | 0.1700 |
| 6726 | 1.486768 | 0.0053 | 0.0096 | 0.9996 | 0.8136 | 0.9984 | 0.6720 | 0.1701 |
| 6727 | 1.486547 | 0.0174 | 0.0320 | 0.9998 | 0.8096 | 0.9984 | 0.6719 | 0.1701 |
| 6728 | 1.486326 | 0.1929 | 0.3570 | 0.9998 | 0.8055 | 0.9984 | 0.6718 | 0.1701 |
| 6729 | 1.486105 | 0.0810 | 0.1509 | 0.9995 | 0.8015 | 0.9984 | 0.6718 | 0.1701 |
| 6730 | 1.485884 | 0.2292 | 0.4287 | 0.9998 | 0.7974 | 0.9984 | 0.6717 | 0.1702 |
| 6731 | 1.485663 | 0.0690 | 0.1296 | 1.0000 | 0.7940 | 0.9984 | 0.6716 | 0.1702 |
| 6732 | 1.485443 | 0.2675 | 0.5051 | 0.9993 | 0.7905 | 0.9984 | 0.6716 | 0.1702 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 6733 | 1.485222 | 0.0595 | 0.1129 | 0.9998 | 0.7870 | 0.9984 | 0.6715 | 0.1702 |
| 6734 | 1.485001 | 0.3159 | 0.6015 | 0.9998 | 0.7835 | 0.9984 | 0.6714 | 0.1703 |
| 6735 | 1.484781 | 0.1034 | 0.1978 | 0.9992 | 0.7801 | 0.9984 | 0.6714 | 0.1703 |
| 6736 | 1.484561 | 0.0344 | 0.0661 | 0.9997 | 0.7767 | 0.9984 | 0.6713 | 0.1703 |
| 6737 | 1.484340 | 0.0101 | 0.0194 | 0.9998 | 0.7733 | 0.9984 | 0.6712 | 0.1703 |
| 6738 | 1.484120 | 0.1305 | 0.2533 | 0.9990 | 0.7699 | 0.9984 | 0.6712 | 0.1703 |
| 6739 | 1.483900 | 0.2489 | 0.4848 | 0.9999 | 0.7665 | 0.9984 | 0.6711 | 0.1704 |
| 6740 | 1.483680 | 0.3775 | 0.7386 | 0.9999 | 0.7631 | 0.9984 | 0.6710 | 0.1704 |
| 6741 | 1.483459 | 0.1225 | 0.2408 | 0.9988 | 0.7601 | 0.9984 | 0.6709 | 0.1704 |
| 6742 | 1.483239 | 0.1873 | 0.3694 | 0.9999 | 0.7572 | 0.9984 | 0.6709 | 0.1704 |
| 6743 | 1.483019 | 0.1184 | 0.2344 | 0.9999 | 0.7542 | 0.9984 | 0.6708 | 0.1705 |
| 6744 | 1.482800 | 0.2887 | 0.5747 | 0.9986 | 0.7512 | 0.9984 | 0.6707 | 0.1705 |
| 6745 | 1.482580 | 0.1713 | 0.3420 | 0.9999 | 0.7483 | 0.9984 | 0.6707 | 0.1705 |
| 6746 | 1.482360 | 0.1519 | 0.3049 | 0.9983 | 0.7454 | 0.9984 | 0.6706 | 0.1705 |
| 6747 | 1.482140 | 0.0046 | 0.0092 | 0.9999 | 0.7425 | 0.9984 | 0.6705 | 0.1705 |
| 6748 | 1.481921 | 0.0044 | 0.0089 | 0.9999 | 0.7396 | 0.9984 | 0.6705 | 0.1706 |
| 6749 | 1.481701 | 0.0023 | 0.0047 | 0.9978 | 0.7367 | 0.9984 | 0.6704 | 0.1706 |
| 6750 | 1.481481 | 0.0321 | 0.0654 | 0.9998 | 0.7338 | 0.9984 | 0.6703 | 0.1706 |
| 6751 | 1.481262 | 0.1963 | 0.4016 | 0.9997 | 0.7308 | 0.9984 | 0.6703 | 0.1706 |
| 6752 | 1.481043 | 0.2210 | 0.4549 | 0.9974 | 0.7279 | 0.9984 | 0.6702 | 0.1707 |
| 6753 | 1.480823 | 0.0553 | 0.1141 | 0.9995 | 0.7249 | 0.9984 | 0.6701 | 0.1707 |
| 6754 | 1.480604 | 0.0006 | 0.0013 | 0.9969 | 0.7220 | 0.9984 | 0.6701 | 0.1707 |
| 6755 | 1.480385 | 0.0014 | 0.0029 | 0.9995 | 0.7190 | 0.9984 | 0.6700 | 0.1707 |
| 6756 | 1.480166 | 0.0042 | 0.0088 | 0.9995 | 0.7161 | 0.9984 | 0.6699 | 0.1708 |
| 6757 | 1.479947 | 0.1278 | 0.2688 | 0.9964 | 0.7132 | 0.9984 | 0.6699 | 0.1708 |
| 6758 | 1.479728 | 0.0609 | 0.1282 | 0.9995 | 0.7103 | 0.9984 | 0.6698 | 0.1708 |
| 6759 | 1.479509 | 0.0051 | 0.0109 | 0.9961 | 0.7074 | 0.9984 | 0.6697 | 0.1708 |
| 6760 | 1.479290 | 0.0281 | 0.0597 | 0.9993 | 0.7045 | 0.9984 | 0.6697 | 0.1708 |
| 6761 | 1.479071 | 0.0523 | 0.1122 | 0.9959 | 0.7002 | 0.9984 | 0.6696 | 0.1709 |
| 6762 | 1.478852 | 0.2024 | 0.4353 | 0.9995 | 0.6959 | 0.9984 | 0.6695 | 0.1709 |
| 6763 | 1.478634 | 0.2858 | 0.6207 | 0.9961 | 0.6916 | 0.9984 | 0.6695 | 0.1709 |
| 6764 | 1.478415 | 0.1633 | 0.3556 | 0.9999 | 0.6873 | 0.9984 | 0.6694 | 0.1709 |
| 6765 | 1.478197 | 0.0101 | 0.0222 | 0.9999 | 0.6829 | 0.9984 | 0.6693 | 0.1710 |
| 6766 | 1.477978 | 0.0067 | 0.0149 | 0.9960 | 0.6787 | 0.9984 | 0.6693 | 0.1710 |
| 6767 | 1.477760 | 0.0037 | 0.0083 | 0.9998 | 0.6746 | 0.9984 | 0.6692 | 0.1710 |
| 6768 | 1.477541 | 0.0112 | 0.0251 | 0.9961 | 0.6704 | 0.9984 | 0.6691 | 0.1710 |
| 6769 | 1.477323 | 0.0409 | 0.0919 | 0.9998 | 0.6662 | 0.9983 | 0.6691 | 0.1710 |
| 6770 | 1.477105 | 0.0002 | 0.0005 | 0.9962 | 0.6620 | 0.9983 | 0.6690 | 0.1711 |
| 6771 | 1.476887 | 0.0082 | 0.0186 | 0.9997 | 0.6588 | 0.9983 | 0.6690 | 0.1711 |
| 6772 | 1.476669 | 0.0746 | 0.1711 | 0.9965 | 0.6555 | 0.9983 | 0.6689 | 0.1711 |
| 6773 | 1.476451 | 0.1426 | 0.3284 | 0.9969 | 0.6523 | 0.9983 | 0.6688 | 0.1711 |
| 6774 | 1.476233 | 0.0669 | 0.1543 | 0.9998 | 0.6491 | 0.9983 | 0.6688 | 0.1712 |
| 6775 | 1.476015 | 0.0047 | 0.0110 | 0.9976 | 0.6458 | 0.9983 | 0.6687 | 0.1712 |
| 6776 | 1.475797 | 0.0028 | 0.0065 | 0.9999 | 0.6427 | 0.9983 | 0.6686 | 0.1712 |
| 6777 | 1.475579 | 0.0299 | 0.0702 | 0.9984 | 0.6395 | 0.9983 | 0.6686 | 0.1712 |
| 6778 | 1.475361 | 0.2566 | 0.6043 | 0.9999 | 0.6364 | 0.9983 | 0.6685 | 0.1712 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 6779 | 1.475144 | 0.3170 | 0.7510 | 0.9991 | 0.6332 | 0.9983 | 0.6684 | 0.1713 |
| 6780 | 1.474926 | 0.3146 | 0.7483 | 0.9999 | 0.6301 | 0.9983 | 0.6684 | 0.1713 |
| 6781 | 1.474709 | 0.1095 | 0.2608 | 0.9995 | 0.6294 | 0.9983 | 0.6683 | 0.1713 |
| 6782 | 1.474491 | 0.2843 | 0.6785 | 0.9987 | 0.6288 | 0.9983 | 0.6682 | 0.1713 |
| 6783 | 1.474274 | 0.1377 | 0.3286 | 0.9999 | 0.6282 | 0.9983 | 0.6682 | 0.1714 |
| 6784 | 1.474057 | 0.0389 | 0.0931 | 0.9978 | 0.6276 | 0.9983 | 0.6681 | 0.1714 |
| 6785 | 1.473839 | 0.0021 | 0.0051 | 0.9971 | 0.6270 | 0.9983 | 0.6680 | 0.1714 |
| 6786 | 1.473622 | 0.0325 | 0.0782 | 0.9966 | 0.6264 | 0.9983 | 0.6680 | 0.1714 |
| 6787 | 1.473405 | 0.1045 | 0.2504 | 0.9997 | 0.6258 | 0.9983 | 0.6679 | 0.1714 |
| 6788 | 1.473188 | 0.0088 | 0.0212 | 0.9961 | 0.6252 | 0.9983 | 0.6678 | 0.1715 |
| 6789 | 1.472971 | 0.0910 | 0.2196 | 0.9957 | 0.6246 | 0.9983 | 0.6678 | 0.1715 |
| 6790 | 1.472754 | 0.0400 | 0.0966 | 0.9955 | 0.6240 | 0.9983 | 0.6677 | 0.1715 |
| 6791 | 1.472537 | 0.0001 | 0.0002 | 0.9954 | 0.6237 | 0.9983 | 0.6676 | 0.1715 |
| 6792 | 1.472320 | 0.0008 | 0.0018 | 0.9918 | 0.6234 | 0.9983 | 0.6676 | 0.1716 |
| 6793 | 1.472104 | 0.0020 | 0.0048 | 0.9960 | 0.6231 | 0.9983 | 0.6675 | 0.1716 |
| 6794 | 1.471887 | 0.0110 | 0.0267 | 0.9964 | 0.6229 | 0.9983 | 0.6674 | 0.1716 |
| 6795 | 1.471670 | 0.0528 | 0.1281 | 0.9943 | 0.6226 | 0.9983 | 0.6674 | 0.1716 |
| 6796 | 1.471454 | 0.0717 | 0.1740 | 0.9941 | 0.6223 | 0.9983 | 0.6673 | 0.1716 |
| 6797 | 1.471237 | 0.0018 | 0.0044 | 0.9957 | 0.6220 | 0.9983 | 0.6672 | 0.1717 |
| 6798 | 1.471021 | 0.0000 | 0.0001 | 0.9999 | 0.6217 | 0.9983 | 0.6672 | 0.1717 |
| 6799 | 1.470805 | 0.0001 | 0.0003 | 1.0000 | 0.6214 | 0.9983 | 0.6671 | 0.1717 |
| 6800 | 1.470588 | 0.0001 | 0.0002 | 1.0000 | 0.6211 | 0.9983 | 0.6670 | 0.1717 |
| 6801 | 1.470372 | 0.0101 | 0.0243 | 1.0000 | 0.6210 | 0.9983 | 0.6670 | 0.1718 |
| 6802 | 1.470156 | 0.0538 | 0.1300 | 1.0000 | 0.6208 | 0.9983 | 0.6669 | 0.1718 |
| 6803 | 1.469940 | 0.0006 | 0.0015 | 1.0000 | 0.6207 | 0.9983 | 0.6668 | 0.1718 |
| 6804 | 1.469724 | 0.0029 | 0.0069 | 1.0000 | 0.6205 | 0.9983 | 0.6668 | 0.1718 |
| 6805 | 1.469508 | 0.0006 | 0.0014 | 1.0000 | 0.6204 | 0.9983 | 0.6667 | 0.1718 |
| 6806 | 1.469292 | 0.0242 | 0.0586 | 1.0000 | 0.6203 | 0.9983 | 0.6666 | 0.1719 |
| 6807 | 1.469076 | 0.0526 | 0.1275 | 1.0000 | 0.6201 | 0.9983 | 0.6666 | 0.1719 |
| 6808 | 1.468860 | 0.1901 | 0.4609 | 1.0000 | 0.6200 | 0.9983 | 0.6665 | 0.1719 |
| 6809 | 1.468644 | 0.1295 | 0.3139 | 1.0000 | 0.6198 | 0.9983 | 0.6665 | 0.1719 |
| 6810 | 1.468429 | 0.0667 | 0.1619 | 1.0000 | 0.6197 | 0.9983 | 0.6664 | 0.1720 |
| 6811 | 1.468213 | 0.1212 | 0.2937 | 1.0000 | 0.6205 | 0.9983 | 0.6663 | 0.1720 |
| 6812 | 1.467998 | 0.0562 | 0.1359 | 1.0000 | 0.6212 | 0.9983 | 0.6663 | 0.1720 |
| 6813 | 1.467782 | 0.0046 | 0.0111 | 1.0000 | 0.6220 | 0.9983 | 0.6662 | 0.1720 |
| 6814 | 1.467567 | 0.0183 | 0.0442 | 1.0000 | 0.6228 | 0.9983 | 0.6661 | 0.1720 |
| 6815 | 1.467351 | 0.0191 | 0.0460 | 1.0000 | 0.6236 | 0.9983 | 0.6661 | 0.1721 |
| 6816 | 1.467136 | 0.0028 | 0.0068 | 1.0000 | 0.6243 | 0.9983 | 0.6660 | 0.1721 |
| 6817 | 1.466921 | 0.0134 | 0.0322 | 1.0000 | 0.6251 | 0.9983 | 0.6659 | 0.1721 |
| 6818 | 1.466706 | 0.0016 | 0.0039 | 1.0000 | 0.6259 | 0.9983 | 0.6659 | 0.1721 |
| 6819 | 1.466491 | 0.0033 | 0.0078 | 1.0000 | 0.6267 | 0.9983 | 0.6658 | 0.1722 |
| 6820 | 1.466276 | 0.0355 | 0.0850 | 1.0000 | 0.6275 | 0.9983 | 0.6657 | 0.1722 |
| 6821 | 1.466061 | 0.0037 | 0.0088 | 1.0000 | 0.6300 | 0.9983 | 0.6657 | 0.1722 |
| 6822 | 1.465846 | 0.0608 | 0.1447 | 1.0000 | 0.6325 | 0.9983 | 0.6656 | 0.1722 |
| 6823 | 1.465631 | 0.0529 | 0.1255 | 1.0000 | 0.6351 | 0.9983 | 0.6655 | 0.1722 |
| 6824 | 1.465416 | 0.0008 | 0.0018 | 1.0000 | 0.6376 | 0.9983 | 0.6655 | 0.1723 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 6825 | 1.465201 | 0.0001 | 0.0003 | 1.0000 | 0.6401 | 0.9983 | 0.6654 | 0.1723 |
| 6826 | 1.464987 | 0.0185 | 0.0434 | 1.0000 | 0.6427 | 0.9983 | 0.6653 | 0.1723 |
| 6827 | 1.464772 | 0.1973 | 0.4604 | 1.0000 | 0.6453 | 0.9983 | 0.6653 | 0.1723 |
| 6828 | 1.464558 | 0.2828 | 0.6574 | 1.0000 | 0.6479 | 0.9983 | 0.6652 | 0.1724 |
| 6829 | 1.464343 | 0.2995 | 0.6934 | 1.0000 | 0.6504 | 0.9983 | 0.6652 | 0.1724 |
| 6830 | 1.464129 | 0.2636 | 0.6080 | 1.0000 | 0.6530 | 0.9983 | 0.6651 | 0.1724 |
| 6831 | 1.463915 | 0.0615 | 0.1413 | 1.0000 | 0.6555 | 0.9983 | 0.6650 | 0.1724 |
| 6832 | 1.463700 | 0.1295 | 0.2964 | 1.0000 | 0.6580 | 0.9983 | 0.6650 | 0.1724 |
| 6833 | 1.463486 | 0.0022 | 0.0051 | 1.0000 | 0.6605 | 0.9983 | 0.6649 | 0.1725 |
| 6834 | 1.463272 | 0.0036 | 0.0082 | 1.0000 | 0.6630 | 0.9983 | 0.6648 | 0.1725 |
| 6835 | 1.463058 | 0.0014 | 0.0031 | 1.0000 | 0.6654 | 0.9983 | 0.6648 | 0.1725 |
| 6836 | 1.462844 | 0.0311 | 0.0701 | 1.0000 | 0.6680 | 0.9983 | 0.6647 | 0.1725 |
| 6837 | 1.462630 | 0.0739 | 0.1660 | 1.0000 | 0.6705 | 0.9983 | 0.6646 | 0.1726 |
| 6838 | 1.462416 | 0.1940 | 0.4345 | 1.0000 | 0.6730 | 0.9983 | 0.6646 | 0.1726 |
| 6839 | 1.462202 | 0.2400 | 0.5355 | 1.0000 | 0.6756 | 0.9983 | 0.6645 | 0.1726 |
| 6840 | 1.461988 | 0.1532 | 0.3407 | 1.0000 | 0.6781 | 0.9983 | 0.6644 | 0.1726 |
| 6841 | 1.461775 | 0.0283 | 0.0628 | 1.0000 | 0.6785 | 0.9983 | 0.6644 | 0.1726 |
| 6842 | 1.461561 | 0.0307 | 0.0683 | 1.0000 | 0.6789 | 0.9983 | 0.6643 | 0.1727 |
| 6843 | 1.461347 | 0.0082 | 0.0182 | 1.0000 | 0.6793 | 0.9983 | 0.6642 | 0.1727 |
| 6844 | 1.461134 | 0.0954 | 0.2118 | 1.0000 | 0.6797 | 0.9983 | 0.6642 | 0.1727 |
| 6845 | 1.460920 | 0.1719 | 0.3812 | 1.0000 | 0.6801 | 0.9983 | 0.6641 | 0.1727 |
| 6846 | 1.460707 | 0.1299 | 0.2881 | 0.9999 | 0.6805 | 0.9983 | 0.6641 | 0.1728 |
| 6847 | 1.460494 | 0.0049 | 0.0108 | 1.0000 | 0.6809 | 0.9983 | 0.6640 | 0.1728 |
| 6848 | 1.460280 | 0.0052 | 0.0116 | 0.9999 | 0.6813 | 0.9983 | 0.6639 | 0.1728 |
| 6849 | 1.460067 | 0.0108 | 0.0238 | 0.9999 | 0.6817 | 0.9983 | 0.6639 | 0.1728 |
| 6850 | 1.459854 | 0.0429 | 0.0949 | 0.9999 | 0.6821 | 0.9983 | 0.6638 | 0.1728 |
| 6851 | 1.459641 | 0.2165 | 0.4799 | 0.9999 | 0.6810 | 0.9983 | 0.6637 | 0.1729 |
| 6852 | 1.459428 | 0.1797 | 0.3989 | 0.9998 | 0.6800 | 0.9983 | 0.6637 | 0.1729 |
| 6853 | 1.459215 | 0.2261 | 0.5028 | 0.9999 | 0.6789 | 0.9983 | 0.6636 | 0.1729 |
| 6854 | 1.459002 | 0.1310 | 0.2918 | 0.9998 | 0.6778 | 0.9983 | 0.6635 | 0.1729 |
| 6855 | 1.458789 | 0.3152 | 0.7032 | 0.9998 | 0.6768 | 0.9983 | 0.6635 | 0.1730 |
| 6856 | 1.458576 | 0.0862 | 0.1927 | 0.9998 | 0.6757 | 0.9983 | 0.6634 | 0.1730 |
| 6857 | 1.458364 | 0.3228 | 0.7226 | 0.9998 | 0.6747 | 0.9983 | 0.6633 | 0.1730 |
| 6858 | 1.458151 | 0.2456 | 0.5509 | 0.9997 | 0.6736 | 0.9983 | 0.6633 | 0.1730 |
| 6859 | 1.457938 | 0.0809 | 0.1817 | 0.9998 | 0.6726 | 0.9983 | 0.6632 | 0.1730 |
| 6860 | 1.457726 | 0.0009 | 0.0021 | 0.9997 | 0.6715 | 0.9983 | 0.6632 | 0.1731 |
| 6861 | 1.457513 | 0.0991 | 0.2239 | 0.9997 | 0.6689 | 0.9983 | 0.6631 | 0.1731 |
| 6862 | 1.457301 | 0.0463 | 0.1051 | 0.9995 | 0.6663 | 0.9983 | 0.6630 | 0.1731 |
| 6863 | 1.457089 | 0.1478 | 0.3367 | 0.9997 | 0.6636 | 0.9983 | 0.6630 | 0.1731 |
| 6864 | 1.456876 | 0.0607 | 0.1389 | 0.9997 | 0.6610 | 0.9983 | 0.6629 | 0.1731 |
| 6865 | 1.456664 | 0.1765 | 0.4054 | 0.9993 | 0.6584 | 0.9983 | 0.6628 | 0.1732 |
| 6866 | 1.456452 | 0.1027 | 0.2368 | 0.9995 | 0.6558 | 0.9983 | 0.6628 | 0.1732 |
| 6867 | 1.456240 | 0.0622 | 0.1440 | 0.9996 | 0.6532 | 0.9983 | 0.6627 | 0.1732 |
| 6868 | 1.456028 | 0.0875 | 0.2035 | 0.9995 | 0.6506 | 0.9983 | 0.6626 | 0.1732 |
| 6869 | 1.455816 | 0.0552 | 0.1290 | 0.9990 | 0.6480 | 0.9982 | 0.6626 | 0.1733 |
| 6870 | 1.455604 | 0.0002 | 0.0005 | 0.9991 | 0.6454 | 0.9982 | 0.6625 | 0.1733 |



|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 6871 | 1.455392 | 0.0019 | 0.0045 | 0.9993 | 0.6439 | 0.9982 | 0.6625 | 0.1733 |
| 6872 | 1.455180 | 0.0005 | 0.0011 | 0.9993 | 0.6424 | 0.9982 | 0.6624 | 0.1733 |
| 6873 | 1.454969 | 0.0341 | 0.0806 | 0.9992 | 0.6408 | 0.9982 | 0.6623 | 0.1733 |
| 6874 | 1.454757 | 0.1693 | 0.4011 | 0.9986 | 0.6393 | 0.9982 | 0.6623 | 0.1734 |
| 6875 | 1.454545 | 0.1327 | 0.3153 | 0.9987 | 0.6378 | 0.9982 | 0.6622 | 0.1734 |
| 6876 | 1.454334 | 0.0332 | 0.0791 | 0.9990 | 0.6363 | 0.9982 | 0.6621 | 0.1734 |
| 6877 | 1.454122 | 0.0845 | 0.2018 | 0.9986 | 0.6348 | 0.9982 | 0.6621 | 0.1734 |
| 6878 | 1.453911 | 0.2582 | 0.6175 | 0.9994 | 0.6332 | 0.9982 | 0.6620 | 0.1735 |
| 6879 | 1.453700 | 0.2230 | 0.5354 | 0.9979 | 0.6317 | 0.9982 | 0.6619 | 0.1735 |
| 6880 | 1.453488 | 0.0586 | 0.1410 | 0.9984 | 0.6302 | 0.9982 | 0.6619 | 0.1735 |
| 6881 | 1.453277 | 0.0308 | 0.0745 | 0.9988 | 0.6255 | 0.9982 | 0.6618 | 0.1735 |
| 6882 | 1.453066 | 0.0059 | 0.0144 | 0.9973 | 0.6209 | 0.9982 | 0.6618 | 0.1735 |
| 6883 | 1.452855 | 0.0559 | 0.1378 | 0.9973 | 0.6162 | 0.9982 | 0.6617 | 0.1736 |
| 6884 | 1.452644 | 0.1422 | 0.3525 | 0.9990 | 0.6115 | 0.9982 | 0.6616 | 0.1736 |
| 6885 | 1.452433 | 0.0206 | 0.0514 | 0.9975 | 0.6068 | 0.9982 | 0.6616 | 0.1736 |
| 6886 | 1.452222 | 0.0028 | 0.0071 | 0.9961 | 0.6023 | 0.9982 | 0.6615 | 0.1736 |
| 6887 | 1.452011 | 0.0066 | 0.0166 | 0.9988 | 0.5978 | 0.9982 | 0.6614 | 0.1736 |
| 6888 | 1.451800 | 0.0354 | 0.0906 | 0.9968 | 0.5932 | 0.9982 | 0.6614 | 0.1737 |
| 6889 | 1.451589 | 0.0805 | 0.2078 | 0.9975 | 0.5887 | 0.9982 | 0.6613 | 0.1737 |
| 6890 | 1.451379 | 0.0017 | 0.0045 | 0.9962 | 0.5842 | 0.9982 | 0.6612 | 0.1737 |
| 6891 | 1.451168 | 0.0002 | 0.0004 | 0.9961 | 0.5813 | 0.9982 | 0.6612 | 0.1737 |
| 6892 | 1.450958 | 0.0000 | 0.0001 | 0.9993 | 0.5784 | 0.9982 | 0.6611 | 0.1738 |
| 6893 | 1.450747 | 0.0000 | 0.0000 | 0.9932 | 0.5754 | 0.9982 | 0.6611 | 0.1738 |
| 6894 | 1.450537 | 0.0001 | 0.0001 | 0.9954 | 0.5725 | 0.9982 | 0.6610 | 0.1738 |
| 6895 | 1.450326 | 0.0000 | 0.0000 | 0.9942 | 0.5696 | 0.9982 | 0.6609 | 0.1738 |
| 6896 | 1.450116 | 0.0004 | 0.0010 | 0.9989 | 0.5667 | 0.9982 | 0.6609 | 0.1738 |
| 6897 | 1.449906 | 0.0028 | 0.0075 | 0.9907 | 0.5639 | 0.9982 | 0.6608 | 0.1739 |
| 6898 | 1.449696 | 0.0588 | 0.1598 | 0.9943 | 0.5610 | 0.9982 | 0.6607 | 0.1739 |
| 6899 | 1.449485 | 0.0483 | 0.1314 | 0.9983 | 0.5582 | 0.9982 | 0.6607 | 0.1739 |
| 6900 | 1.449275 | 0.1432 | 0.3936 | 0.9931 | 0.5553 | 0.9982 | 0.6606 | 0.1739 |
| 6901 | 1.449065 | 0.1270 | 0.3530 | 0.9881 | 0.5522 | 0.9982 | 0.6606 | 0.1740 |
| 6902 | 1.448855 | 0.0214 | 0.0597 | 0.9918 | 0.5490 | 0.9982 | 0.6605 | 0.1740 |
| 6903 | 1.448646 | 0.0568 | 0.1583 | 0.9978 | 0.5459 | 0.9982 | 0.6604 | 0.1740 |
| 6904 | 1.448436 | 0.1193 | 0.3387 | 0.9847 | 0.5428 | 0.9982 | 0.6604 | 0.1740 |
| 6905 | 1.448226 | 0.0054 | 0.0153 | 0.9899 | 0.5396 | 0.9982 | 0.6603 | 0.1740 |
| 6906 | 1.448016 | 0.1275 | 0.3645 | 0.9894 | 0.5366 | 0.9982 | 0.6602 | 0.1741 |
| 6907 | 1.447807 | 0.1547 | 0.4412 | 0.9972 | 0.5335 | 0.9982 | 0.6602 | 0.1741 |
| 6908 | 1.447597 | 0.0518 | 0.1512 | 0.9792 | 0.5304 | 0.9982 | 0.6601 | 0.1741 |
| 6909 | 1.447387 | 0.0065 | 0.0190 | 0.9873 | 0.5274 | 0.9982 | 0.6601 | 0.1741 |
| 6910 | 1.447178 | 0.0012 | 0.0036 | 0.9864 | 0.5243 | 0.9982 | 0.6600 | 0.1741 |
| 6911 | 1.446969 | 0.0017 | 0.0051 | 0.9728 | 0.5227 | 0.9982 | 0.6599 | 0.1742 |
| 6912 | 1.446759 | 0.0388 | 0.1135 | 0.9962 | 0.5211 | 0.9982 | 0.6599 | 0.1742 |
| 6913 | 1.446550 | 0.0420 | 0.1246 | 0.9847 | 0.5194 | 0.9982 | 0.6598 | 0.1742 |
| 6914 | 1.446341 | 0.0241 | 0.0732 | 0.9661 | 0.5178 | 0.9982 | 0.6597 | 0.1742 |
| 6915 | 1.446132 | 0.0000 | 0.0001 | 0.9848 | 0.5162 | 0.9982 | 0.6597 | 0.1743 |
| 6916 | 1.445922 | 0.0000 | 0.0000 | 0.9847 | 0.5146 | 0.9982 | 0.6596 | 0.1743 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 6917 | 1.445713 | 0.0000 | 0.0000 | 0.9839 | 0.5130 | 0.9982 | 0.6596 | 0.1743 |
| 6918 | 1.445504 | 0.0000 | 0.0000 | 0.9586 | 0.5114 | 0.9982 | 0.6595 | 0.1743 |
| 6919 | 1.445296 | 0.0002 | 0.0006 | 0.9827 | 0.5098 | 0.9982 | 0.6594 | 0.1743 |
| 6920 | 1.445087 | 0.0210 | 0.0638 | 0.9832 | 0.5082 | 0.9982 | 0.6594 | 0.1744 |
| 6921 | 1.444878 | 0.0378 | 0.1192 | 0.9500 | 0.5071 | 0.9982 | 0.6593 | 0.1744 |
| 6922 | 1.444669 | 0.0345 | 0.1040 | 0.9969 | 0.5060 | 0.9982 | 0.6592 | 0.1744 |
| 6923 | 1.444460 | 0.0005 | 0.0016 | 0.9837 | 0.5049 | 0.9982 | 0.6592 | 0.1744 |
| 6924 | 1.444252 | 0.0278 | 0.0892 | 0.9400 | 0.5038 | 0.9982 | 0.6591 | 0.1744 |
| 6925 | 1.444043 | 0.0056 | 0.0173 | 0.9839 | 0.5027 | 0.9982 | 0.6591 | 0.1745 |
| 6926 | 1.443835 | 0.0374 | 0.1164 | 0.9727 | 0.5016 | 0.9982 | 0.6590 | 0.1745 |
| 6927 | 1.443626 | 0.1094 | 0.3578 | 0.9288 | 0.5005 | 0.9982 | 0.6589 | 0.1745 |
| 6928 | 1.443418 | 0.0593 | 0.1829 | 0.9863 | 0.4994 | 0.9982 | 0.6589 | 0.1745 |
| 6929 | 1.443210 | 0.0013 | 0.0040 | 0.9862 | 0.4983 | 0.9982 | 0.6588 | 0.1746 |
| 6930 | 1.443001 | 0.0004 | 0.0013 | 0.9166 | 0.4973 | 0.9982 | 0.6587 | 0.1746 |
| 6931 | 1.442793 | 0.0000 | 0.0001 | 0.9882 | 0.4959 | 0.9982 | 0.6587 | 0.1746 |
| 6932 | 1.442585 | 0.0148 | 0.0461 | 0.9882 | 0.4945 | 0.9982 | 0.6586 | 0.1746 |
| 6933 | 1.442377 | 0.0184 | 0.0629 | 0.9032 | 0.4932 | 0.9982 | 0.6586 | 0.1746 |
| 6934 | 1.442169 | 0.0036 | 0.0113 | 0.9902 | 0.4918 | 0.9982 | 0.6585 | 0.1747 |
| 6935 | 1.441961 | 0.0139 | 0.0438 | 0.9873 | 0.4904 | 0.9982 | 0.6584 | 0.1747 |
| 6936 | 1.441753 | 0.0000 | 0.0001 | 0.8986 | 0.4891 | 0.9982 | 0.6584 | 0.1747 |
| 6937 | 1.441545 | 0.0001 | 0.0002 | 0.9821 | 0.4877 | 0.9982 | 0.6583 | 0.1747 |
| 6938 | 1.441338 | 0.0001 | 0.0002 | 0.8788 | 0.4864 | 0.9982 | 0.6582 | 0.1747 |
| 6939 | 1.441130 | 0.0213 | 0.0683 | 0.9790 | 0.4850 | 0.9982 | 0.6582 | 0.1748 |
| 6940 | 1.440922 | 0.0168 | 0.0537 | 0.9831 | 0.4837 | 0.9982 | 0.6581 | 0.1748 |
| 6941 | 1.440715 | 0.0163 | 0.0602 | 0.8496 | 0.4837 | 0.9982 | 0.6581 | 0.1748 |
| 6942 | 1.440507 | 0.0020 | 0.0064 | 0.9795 | 0.4837 | 0.9982 | 0.6580 | 0.1748 |
| 6943 | 1.440300 | 0.0713 | 0.2325 | 0.9652 | 0.4836 | 0.9982 | 0.6579 | 0.1749 |
| 6944 | 1.440092 | 0.0137 | 0.0520 | 0.8267 | 0.4836 | 0.9982 | 0.6579 | 0.1749 |
| 6945 | 1.439885 | 0.0080 | 0.0263 | 0.9560 | 0.4836 | 0.9982 | 0.6578 | 0.1749 |
| 6946 | 1.439678 | 0.0000 | 0.0000 | 0.8100 | 0.4836 | 0.9982 | 0.6577 | 0.1749 |
| 6947 | 1.439470 | 0.0000 | 0.0000 | 0.9485 | 0.4836 | 0.9982 | 0.6577 | 0.1749 |
| 6948 | 1.439263 | 0.0010 | 0.0032 | 0.9510 | 0.4835 | 0.9982 | 0.6576 | 0.1750 |
| 6949 | 1.439056 | 0.0229 | 0.0911 | 0.7930 | 0.4835 | 0.9982 | 0.6576 | 0.1750 |
| 6950 | 1.438849 | 0.0749 | 0.2512 | 0.9396 | 0.4835 | 0.9982 | 0.6575 | 0.1750 |
| 6951 | 1.438642 | 0.0279 | 0.1146 | 0.7698 | 0.4824 | 0.9982 | 0.6574 | 0.1750 |
| 6952 | 1.438435 | 0.0082 | 0.0266 | 0.9781 | 0.4814 | 0.9982 | 0.6574 | 0.1750 |
| 6953 | 1.438228 | 0.0018 | 0.0072 | 0.7926 | 0.4803 | 0.9982 | 0.6573 | 0.1751 |
| 6954 | 1.438021 | 0.0000 | 0.0000 | 0.9869 | 0.4792 | 0.9982 | 0.6573 | 0.1751 |
| 6955 | 1.437815 | 0.0000 | 0.0001 | 0.9863 | 0.4781 | 0.9982 | 0.6572 | 0.1751 |
| 6956 | 1.437608 | 0.0000 | 0.0000 | 0.7852 | 0.4771 | 0.9982 | 0.6571 | 0.1751 |
| 6957 | 1.437401 | 0.0004 | 0.0015 | 0.9767 | 0.4760 | 0.9982 | 0.6571 | 0.1752 |
| 6958 | 1.437195 | 0.0008 | 0.0033 | 0.7808 | 0.4749 | 0.9982 | 0.6570 | 0.1752 |
| 6959 | 1.436988 | 0.0050 | 0.0166 | 0.9759 | 0.4739 | 0.9982 | 0.6569 | 0.1752 |
| 6960 | 1.436782 | 0.0289 | 0.1192 | 0.7818 | 0.4728 | 0.9982 | 0.6569 | 0.1752 |
| 6961 | 1.436575 | 0.0094 | 0.0309 | 0.9761 | 0.4733 | 0.9982 | 0.6568 | 0.1752 |
| 6962 | 1.436369 | 0.0024 | 0.0097 | 0.7883 | 0.4738 | 0.9982 | 0.6568 | 0.1753 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 6963 | 1.436163 | 0.0020 | 0.0065 | 0.9774 | 0.4742 | 0.9982 | 0.6567 | 0.1753 |
| 6964 | 1.435956 | 0.0026 | 0.0106 | 0.8007 | 0.4747 | 0.9982 | 0.6566 | 0.1753 |
| 6965 | 1.435750 | 0.0660 | 0.2163 | 0.9793 | 0.4752 | 0.9981 | 0.6566 | 0.1753 |
| 6966 | 1.435544 | 0.0091 | 0.0356 | 0.8201 | 0.4756 | 0.9981 | 0.6565 | 0.1753 |
| 6967 | 1.435338 | 0.0003 | 0.0010 | 0.9816 | 0.4761 | 0.9981 | 0.6565 | 0.1754 |
| 6968 | 1.435132 | 0.0116 | 0.0440 | 0.8442 | 0.4766 | 0.9981 | 0.6564 | 0.1754 |
| 6969 | 1.434926 | 0.0050 | 0.0183 | 0.8799 | 0.4770 | 0.9981 | 0.6563 | 0.1754 |
| 6970 | 1.434720 | 0.0002 | 0.0005 | 0.9899 | 0.4775 | 0.9981 | 0.6563 | 0.1754 |
| 6971 | 1.434514 | 0.0001 | 0.0003 | 0.9259 | 0.4766 | 0.9981 | 0.6562 | 0.1754 |
| 6972 | 1.434309 | 0.0000 | 0.0000 | 0.9944 | 0.4756 | 0.9981 | 0.6561 | 0.1755 |
| 6973 | 1.434103 | 0.0001 | 0.0002 | 0.9595 | 0.4747 | 0.9981 | 0.6561 | 0.1755 |
| 6974 | 1.433897 | 0.0063 | 0.0205 | 0.9923 | 0.4737 | 0.9981 | 0.6560 | 0.1755 |
| 6975 | 1.433692 | 0.0006 | 0.0023 | 0.9026 | 0.4728 | 0.9981 | 0.6560 | 0.1755 |
| 6976 | 1.433486 | 0.0597 | 0.2248 | 0.8601 | 0.4719 | 0.9981 | 0.6559 | 0.1756 |
| 6977 | 1.433281 | 0.0677 | 0.2238 | 0.9812 | 0.4709 | 0.9981 | 0.6558 | 0.1756 |
| 6978 | 1.433075 | 0.0041 | 0.0162 | 0.8208 | 0.4700 | 0.9981 | 0.6558 | 0.1756 |
| 6979 | 1.432870 | 0.0004 | 0.0018 | 0.7898 | 0.4691 | 0.9981 | 0.6557 | 0.1756 |
| 6980 | 1.432665 | 0.0000 | 0.0000 | 0.7710 | 0.4681 | 0.9981 | 0.6557 | 0.1756 |
| 6981 | 1.432460 | 0.0000 | 0.0000 | 0.7595 | 0.4684 | 0.9981 | 0.6556 | 0.1757 |
| 6982 | 1.432254 | 0.0000 | 0.0000 | 0.7544 | 0.4686 | 0.9981 | 0.6555 | 0.1757 |
| 6983 | 1.432049 | 0.0006 | 0.0027 | 0.7540 | 0.4689 | 0.9981 | 0.6555 | 0.1757 |
| 6984 | 1.431844 | 0.0000 | 0.0001 | 0.7522 | 0.4691 | 0.9981 | 0.6554 | 0.1757 |
| 6985 | 1.431639 | 0.0000 | 0.0000 | 0.6160 | 0.4694 | 0.9981 | 0.6554 | 0.1757 |
| 6986 | 1.431434 | 0.0000 | 0.0002 | 0.7784 | 0.4697 | 0.9981 | 0.6553 | 0.1758 |
| 6987 | 1.431229 | 0.0000 | 0.0001 | 0.6738 | 0.4699 | 0.9981 | 0.6552 | 0.1758 |
| 6988 | 1.431025 | 0.0011 | 0.0060 | 0.5885 | 0.4702 | 0.9981 | 0.6552 | 0.1758 |
| 6989 | 1.430820 | 0.0530 | 0.2189 | 0.7872 | 0.4704 | 0.9981 | 0.6551 | 0.1758 |
| 6990 | 1.430615 | 0.1123 | 0.3688 | 0.9898 | 0.4707 | 0.9981 | 0.6550 | 0.1758 |
| 6991 | 1.430411 | 0.0995 | 0.3250 | 0.9977 | 0.4691 | 0.9981 | 0.6550 | 0.1759 |
| 6992 | 1.430206 | 0.0095 | 0.0311 | 0.9990 | 0.4676 | 0.9981 | 0.6549 | 0.1759 |
| 6993 | 1.430001 | 0.0022 | 0.0072 | 0.9994 | 0.4660 | 0.9981 | 0.6549 | 0.1759 |
| 6994 | 1.429797 | 0.0042 | 0.0139 | 0.9996 | 0.4644 | 0.9981 | 0.6548 | 0.1759 |
| 6995 | 1.429593 | 0.0067 | 0.0223 | 0.9997 | 0.4629 | 0.9981 | 0.6547 | 0.1760 |
| 6996 | 1.429388 | 0.0308 | 0.1020 | 0.9998 | 0.4613 | 0.9981 | 0.6547 | 0.1760 |
| 6997 | 1.429184 | 0.0228 | 0.0758 | 0.9999 | 0.4598 | 0.9981 | 0.6546 | 0.1760 |
| 6998 | 1.428980 | 0.0000 | 0.0000 | 0.9999 | 0.4583 | 0.9981 | 0.6546 | 0.1760 |
| 6999 | 1.428776 | 0.0011 | 0.0036 | 0.9999 | 0.4567 | 0.9981 | 0.6545 | 0.1760 |
| 7000 | 1.428571 | 0.0003 | 0.0009 | 0.9999 | 0.4552 | 0.9981 | 0.6544 | 0.1761 |
| 7001 | 1.428367 | 0.0000 | 0.0000 | 0.9999 | 0.4538 | 0.9981 | 0.6544 | 0.1761 |
| 7002 | 1.428163 | 0.0000 | 0.0000 | 0.9999 | 0.4523 | 0.9981 | 0.6543 | 0.1761 |
| 7003 | 1.427959 | 0.0002 | 0.0007 | 1.0000 | 0.4509 | 0.9981 | 0.6543 | 0.1761 |
| 7004 | 1.427756 | 0.0001 | 0.0003 | 1.0000 | 0.4494 | 0.9981 | 0.6542 | 0.1761 |
| 7005 | 1.427552 | 0.0004 | 0.0014 | 1.0000 | 0.4480 | 0.9981 | 0.6541 | 0.1762 |
| 7006 | 1.427348 | 0.0007 | 0.0023 | 1.0000 | 0.4466 | 0.9981 | 0.6541 | 0.1762 |
| 7007 | 1.427144 | 0.0010 | 0.0034 | 1.0000 | 0.4452 | 0.9981 | 0.6540 | 0.1762 |
| 7008 | 1.426941 | 0.0064 | 0.0220 | 1.0000 | 0.4437 | 0.9981 | 0.6540 | 0.1762 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 7009 | 1.426737 | 0.0778 | 0.2694 | 1.0000 | 0.4423 | 0.9981 | 0.6539 | 0.1762 |
| 7010 | 1.426534 | 0.0974 | 0.3385 | 1.0000 | 0.4409 | 0.9981 | 0.6538 | 0.1763 |
| 7011 | 1.426330 | 0.0097 | 0.0340 | 1.0000 | 0.4374 | 0.9981 | 0.6538 | 0.1763 |
| 7012 | 1.426127 | 0.0089 | 0.0316 | 1.0000 | 0.4340 | 0.9981 | 0.6537 | 0.1763 |
| 7013 | 1.425923 | 0.0000 | 0.0001 | 1.0000 | 0.4305 | 0.9981 | 0.6537 | 0.1763 |
| 7014 | 1.425720 | 0.0000 | 0.0001 | 1.0000 | 0.4270 | 0.9981 | 0.6536 | 0.1763 |
| 7015 | 1.425517 | 0.0001 | 0.0004 | 1.0000 | 0.4236 | 0.9981 | 0.6535 | 0.1764 |
| 7016 | 1.425314 | 0.0000 | 0.0000 | 1.0000 | 0.4202 | 0.9981 | 0.6535 | 0.1764 |
| 7017 | 1.425110 | 0.0034 | 0.0124 | 1.0000 | 0.4169 | 0.9981 | 0.6534 | 0.1764 |
| 7018 | 1.424907 | 0.0011 | 0.0040 | 1.0000 | 0.4135 | 0.9981 | 0.6534 | 0.1764 |
| 7019 | 1.424704 | 0.0130 | 0.0487 | 1.0000 | 0.4102 | 0.9981 | 0.6533 | 0.1765 |
| 7020 | 1.424501 | 0.0152 | 0.0572 | 1.0000 | 0.4069 | 0.9981 | 0.6532 | 0.1765 |
| 7021 | 1.424299 | 0.0086 | 0.0329 | 1.0000 | 0.4028 | 0.9981 | 0.6532 | 0.1765 |
| 7022 | 1.424096 | 0.0000 | 0.0000 | 1.0000 | 0.3988 | 0.9981 | 0.6531 | 0.1765 |
| 7023 | 1.423893 | 0.0000 | 0.0000 | 1.0000 | 0.3947 | 0.9981 | 0.6531 | 0.1765 |
| 7024 | 1.423690 | 0.0000 | 0.0000 | 1.0000 | 0.3907 | 0.9981 | 0.6530 | 0.1766 |
| 7025 | 1.423488 | 0.0000 | 0.0001 | 1.0000 | 0.3866 | 0.9981 | 0.6529 | 0.1766 |
| 7026 | 1.423285 | 0.0000 | 0.0001 | 1.0000 | 0.3828 | 0.9981 | 0.6529 | 0.1766 |
| 7027 | 1.423082 | 0.0002 | 0.0007 | 1.0000 | 0.3789 | 0.9981 | 0.6528 | 0.1766 |
| 7028 | 1.422880 | 0.0001 | 0.0004 | 1.0000 | 0.3751 | 0.9981 | 0.6527 | 0.1766 |
| 7029 | 1.422677 | 0.0000 | 0.0002 | 1.0000 | 0.3712 | 0.9981 | 0.6527 | 0.1767 |
| 7030 | 1.422475 | 0.0181 | 0.0756 | 1.0000 | 0.3674 | 0.9981 | 0.6526 | 0.1767 |
| 7031 | 1.422273 | 0.0138 | 0.0584 | 1.0000 | 0.3622 | 0.9981 | 0.6526 | 0.1767 |
| 7032 | 1.422071 | 0.0102 | 0.0438 | 1.0000 | 0.3571 | 0.9981 | 0.6525 | 0.1767 |
| 7033 | 1.421868 | 0.0118 | 0.0517 | 1.0000 | 0.3519 | 0.9981 | 0.6525 | 0.1767 |
| 7034 | 1.421666 | 0.0007 | 0.0030 | 1.0000 | 0.3468 | 0.9981 | 0.6524 | 0.1768 |
| 7035 | 1.421464 | 0.0054 | 0.0241 | 1.0000 | 0.3417 | 0.9981 | 0.6523 | 0.1768 |
| 7036 | 1.421262 | 0.0065 | 0.0296 | 1.0000 | 0.3369 | 0.9981 | 0.6523 | 0.1768 |
| 7037 | 1.421060 | 0.0001 | 0.0005 | 1.0000 | 0.3321 | 0.9981 | 0.6522 | 0.1768 |
| 7038 | 1.420858 | 0.0000 | 0.0002 | 1.0000 | 0.3273 | 0.9981 | 0.6522 | 0.1768 |
| 7039 | 1.420656 | 0.0001 | 0.0004 | 1.0000 | 0.3225 | 0.9981 | 0.6521 | 0.1769 |
| 7040 | 1.420455 | 0.0001 | 0.0005 | 1.0000 | 0.3177 | 0.9981 | 0.6520 | 0.1769 |
| 7041 | 1.420253 | 0.0010 | 0.0050 | 1.0000 | 0.3111 | 0.9981 | 0.6520 | 0.1769 |
| 7042 | 1.420051 | 0.0000 | 0.0002 | 1.0000 | 0.3045 | 0.9981 | 0.6519 | 0.1769 |
| 7043 | 1.419849 | 0.0000 | 0.0000 | 1.0000 | 0.2980 | 0.9981 | 0.6519 | 0.1769 |
| 7044 | 1.419648 | 0.0000 | 0.0001 | 1.0000 | 0.2914 | 0.9981 | 0.6518 | 0.1770 |
| 7045 | 1.419446 | 0.0000 | 0.0000 | 1.0000 | 0.2848 | 0.9981 | 0.6517 | 0.1770 |
| 7046 | 1.419245 | 0.0000 | 0.0000 | 1.0000 | 0.2789 | 0.9981 | 0.6517 | 0.1770 |
| 7047 | 1.419044 | 0.0000 | 0.0000 | 1.0000 | 0.2729 | 0.9981 | 0.6516 | 0.1770 |
| 7048 | 1.418842 | 0.0000 | 0.0000 | 1.0000 | 0.2670 | 0.9981 | 0.6516 | 0.1771 |
| 7049 | 1.418641 | 0.0000 | 0.0000 | 1.0000 | 0.2611 | 0.9981 | 0.6515 | 0.1771 |
| 7050 | 1.418440 | 0.0014 | 0.0083 | 1.0000 | 0.2552 | 0.9981 | 0.6514 | 0.1771 |
| 7051 | 1.418239 | 0.0033 | 0.0204 | 1.0000 | 0.2503 | 0.9981 | 0.6514 | 0.1771 |
| 7052 | 1.418037 | 0.0000 | 0.0001 | 1.0000 | 0.2455 | 0.9981 | 0.6513 | 0.1771 |
| 7053 | 1.417836 | 0.0000 | 0.0000 | 1.0000 | 0.2406 | 0.9981 | 0.6513 | 0.1772 |
| 7054 | 1.417635 | 0.0001 | 0.0005 | 1.0000 | 0.2358 | 0.9981 | 0.6512 | 0.1772 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 7055 | 1.417434 | 0.0001 | 0.0003 | 1.0000 | 0.2309 | 0.9981 | 0.6511 | 0.1772 |
| 7056 | 1.417234 | 0.0006 | 0.0044 | 1.0000 | 0.2265 | 0.9981 | 0.6511 | 0.1772 |
| 7057 | 1.417033 | 0.0001 | 0.0004 | 1.0000 | 0.2221 | 0.9980 | 0.6510 | 0.1772 |
| 7058 | 1.416832 | 0.0009 | 0.0061 | 1.0000 | 0.2177 | 0.9980 | 0.6510 | 0.1773 |
| 7059 | 1.416631 | 0.0017 | 0.0121 | 1.0000 | 0.2133 | 0.9980 | 0.6509 | 0.1773 |
| 7060 | 1.416431 | 0.0304 | 0.2240 | 1.0000 | 0.2089 | 0.9980 | 0.6508 | 0.1773 |
| 7061 | 1.416230 | 0.0300 | 0.2291 | 1.0000 | 0.2016 | 0.9980 | 0.6508 | 0.1773 |
| 7062 | 1.416029 | 0.0030 | 0.0240 | 1.0000 | 0.1943 | 0.9980 | 0.6507 | 0.1773 |
| 7063 | 1.415829 | 0.0007 | 0.0057 | 1.0000 | 0.1870 | 0.9980 | 0.6507 | 0.1774 |
| 7064 | 1.415629 | 0.0001 | 0.0005 | 1.0000 | 0.1797 | 0.9980 | 0.6506 | 0.1774 |
| 7065 | 1.415428 | 0.0000 | 0.0000 | 1.0000 | 0.1725 | 0.9980 | 0.6505 | 0.1774 |
| 7066 | 1.415228 | 0.0000 | 0.0001 | 1.0000 | 0.1664 | 0.9980 | 0.6505 | 0.1774 |
| 7067 | 1.415028 | 0.0000 | 0.0000 | 1.0000 | 0.1604 | 0.9980 | 0.6504 | 0.1774 |
| 7068 | 1.414827 | 0.0000 | 0.0000 | 1.0000 | 0.1544 | 0.9980 | 0.6504 | 0.1775 |
| 7069 | 1.414627 | 0.0000 | 0.0000 | 1.0000 | 0.1483 | 0.9980 | 0.6503 | 0.1775 |
| 7070 | 1.414427 | 0.0000 | 0.0000 | 1.0000 | 0.1423 | 0.9980 | 0.6502 | 0.1775 |
| 7071 | 1.414227 | 0.0000 | 0.0000 | 1.0000 | 0.1373 | 0.9980 | 0.6502 | 0.1775 |
| 7072 | 1.414027 | 0.0000 | 0.0000 | 1.0000 | 0.1323 | 0.9980 | 0.6501 | 0.1775 |
| 7073 | 1.413827 | 0.0000 | 0.0000 | 1.0000 | 0.1272 | 0.9980 | 0.6501 | 0.1776 |
| 7074 | 1.413627 | 0.0000 | 0.0000 | 1.0000 | 0.1222 | 0.9980 | 0.6500 | 0.1776 |
| 7075 | 1.413428 | 0.0000 | 0.0003 | 1.0000 | 0.1172 | 0.9980 | 0.6500 | 0.1776 |
| 7076 | 1.413228 | 0.0048 | 0.0659 | 1.0000 | 0.1130 | 0.9980 | 0.6499 | 0.1776 |
| 7077 | 1.413028 | 0.0035 | 0.0494 | 1.0000 | 0.1089 | 0.9980 | 0.6498 | 0.1776 |
| 7078 | 1.412828 | 0.0032 | 0.0466 | 1.0000 | 0.1047 | 0.9980 | 0.6498 | 0.1777 |
| 7079 | 1.412629 | 0.0000 | 0.0004 | 1.0000 | 0.1006 | 0.9980 | 0.6497 | 0.1777 |
| 7080 | 1.412429 | 0.0000 | 0.0000 | 1.0000 | 0.0964 | 0.9980 | 0.6497 | 0.1777 |
| 7081 | 1.412230 | 0.0000 | 0.0001 | 1.0000 | 0.0926 | 0.9980 | 0.6496 | 0.1777 |
| 7082 | 1.412030 | 0.0000 | 0.0000 | 1.0000 | 0.0887 | 0.9980 | 0.6495 | 0.1777 |
| 7083 | 1.411831 | 0.0002 | 0.0028 | 1.0000 | 0.0848 | 0.9980 | 0.6495 | 0.1778 |
| 7084 | 1.411632 | 0.0001 | 0.0015 | 1.0000 | 0.0809 | 0.9980 | 0.6494 | 0.1778 |
| 7085 | 1.411433 | 0.0000 | 0.0002 | 1.0000 | 0.0770 | 0.9980 | 0.6494 | 0.1778 |
| 7086 | 1.411233 | 0.0000 | 0.0003 | 1.0000 | 0.0739 | 0.9980 | 0.6493 | 0.1778 |
| 7087 | 1.411034 | 0.0000 | 0.0002 | 1.0000 | 0.0708 | 0.9980 | 0.6492 | 0.1779 |
| 7088 | 1.410835 | 0.0001 | 0.0022 | 1.0000 | 0.0677 | 0.9980 | 0.6492 | 0.1779 |
| 7089 | 1.410636 | 0.0000 | 0.0002 | 1.0000 | 0.0646 | 0.9980 | 0.6491 | 0.1779 |
| 7090 | 1.410437 | 0.0000 | 0.0000 | 1.0000 | 0.0615 | 0.9980 | 0.6491 | 0.1779 |
| 7091 | 1.410238 | 0.0000 | 0.0001 | 1.0000 | 0.0594 | 0.9980 | 0.6490 | 0.1779 |
| 7092 | 1.410039 | 0.0000 | 0.0000 | 1.0000 | 0.0573 | 0.9980 | 0.6490 | 0.1780 |
| 7093 | 1.409841 | 0.0000 | 0.0000 | 1.0000 | 0.0553 | 0.9980 | 0.6489 | 0.1780 |
| 7094 | 1.409642 | 0.0000 | 0.0000 | 1.0000 | 0.0532 | 0.9980 | 0.6488 | 0.1780 |
| 7095 | 1.409443 | 0.0000 | 0.0000 | 1.0000 | 0.0511 | 0.9980 | 0.6488 | 0.1780 |
| 7096 | 1.409245 | 0.0000 | 0.0000 | 1.0000 | 0.0494 | 0.9980 | 0.6487 | 0.1780 |
| 7097 | 1.409046 | 0.0000 | 0.0000 | 1.0000 | 0.0477 | 0.9980 | 0.6487 | 0.1781 |
| 7098 | 1.408848 | 0.0000 | 0.0000 | 1.0000 | 0.0459 | 0.9980 | 0.6486 | 0.1781 |
| 7099 | 1.408649 | 0.0000 | 0.0005 | 1.0000 | 0.0442 | 0.9980 | 0.6485 | 0.1781 |
| 7100 | 1.408451 | 0.0000 | 0.0002 | 1.0000 | 0.0425 | 0.9980 | 0.6485 | 0.1781 |

|      |          |        |        |        |        |        |        |        |
|------|----------|--------|--------|--------|--------|--------|--------|--------|
| 7101 | 1.408252 | 0.0000 | 0.0001 | 1.0000 | 0.0407 | 0.9980 | 0.6484 | 0.1781 |
| 7102 | 1.408054 | 0.0000 | 0.0011 | 1.0000 | 0.0388 | 0.9980 | 0.6484 | 0.1782 |
| 7103 | 1.407856 | 0.0000 | 0.0003 | 1.0000 | 0.0370 | 0.9980 | 0.6483 | 0.1782 |
| 7104 | 1.407658 | 0.0000 | 0.0000 | 1.0000 | 0.0351 | 0.9980 | 0.6483 | 0.1782 |
| 7105 | 1.407460 | 0.0000 | 0.0000 | 1.0000 | 0.0333 | 0.9980 | 0.6482 | 0.1782 |
| 7106 | 1.407261 | 0.0000 | 0.0000 | 1.0000 | 0.0319 | 0.9980 | 0.6481 | 0.1782 |
| 7107 | 1.407063 | 0.0000 | 0.0000 | 1.0000 | 0.0304 | 0.9980 | 0.6481 | 0.1783 |
| 7108 | 1.406866 | 0.0000 | 0.0000 | 1.0000 | 0.0290 | 0.9980 | 0.6480 | 0.1783 |
| 7109 | 1.406668 | 0.0000 | 0.0000 | 1.0000 | 0.0275 | 0.9980 | 0.6480 | 0.1783 |
| 7110 | 1.406470 | 0.0000 | 0.0001 | 1.0000 | 0.0261 | 0.9980 | 0.6479 | 0.1783 |
| 7111 | 1.406272 | 0.0000 | 0.0002 | 1.0000 | 0.0247 | 0.9980 | 0.6478 | 0.1783 |
| 7112 | 1.406074 | 0.0001 | 0.0037 | 1.0000 | 0.0233 | 0.9980 | 0.6478 | 0.1784 |
| 7113 | 1.405877 | 0.0000 | 0.0002 | 1.0000 | 0.0219 | 0.9980 | 0.6477 | 0.1784 |
| 7114 | 1.405679 | 0.0000 | 0.0000 | 1.0000 | 0.0206 | 0.9980 | 0.6477 | 0.1784 |
| 7115 | 1.405481 | 0.0000 | 0.0000 | 1.0000 | 0.0192 | 0.9980 | 0.6476 | 0.1784 |
| 7116 | 1.405284 | 0.0000 | 0.0000 | 1.0000 | 0.0182 | 0.9980 | 0.6476 | 0.1784 |
| 7117 | 1.405086 | 0.0000 | 0.0000 | 1.0000 | 0.0171 | 0.9980 | 0.6475 | 0.1785 |
| 7118 | 1.404889 | 0.0000 | 0.0000 | 1.0000 | 0.0161 | 0.9980 | 0.6474 | 0.1785 |
| 7119 | 1.404691 | 0.0000 | 0.0000 | 1.0000 | 0.0151 | 0.9980 | 0.6474 | 0.1785 |
| 7120 | 1.404494 | 0.0000 | 0.0000 | 1.0000 | 0.0141 | 0.9980 | 0.6473 | 0.1785 |
| 7121 | 1.404297 | 0.0000 | 0.0000 | 1.0000 | 0.0136 | 0.9980 | 0.6473 | 0.1785 |
| 7122 | 1.404100 | 0.0000 | 0.0000 | 1.0000 | 0.0132 | 0.9980 | 0.6472 | 0.1786 |
| 7123 | 1.403903 | 0.0000 | 0.0000 | 1.0000 | 0.0127 | 0.9980 | 0.6472 | 0.1786 |
| 7124 | 1.403706 | 0.0000 | 0.0001 | 1.0000 | 0.0123 | 0.9980 | 0.6471 | 0.1786 |
| 7125 | 1.403509 | 0.0000 | 0.0048 | 1.0000 | 0.0118 | 0.9980 | 0.6470 | 0.1786 |
| 7126 | 1.403312 | 0.0000 | 0.0001 | 1.0000 | 0.0115 | 0.9980 | 0.6470 | 0.1786 |
| 7127 | 1.403115 | 0.0000 | 0.0001 | 1.0000 | 0.0111 | 0.9980 | 0.6469 | 0.1787 |
| 7128 | 1.402918 | 0.0000 | 0.0001 | 1.0000 | 0.0107 | 0.9980 | 0.6469 | 0.1787 |
| 7129 | 1.402721 | 0.0000 | 0.0040 | 1.0000 | 0.0103 | 0.9980 | 0.6468 | 0.1787 |
| 7130 | 1.402525 | 0.0002 | 0.0372 | 1.0000 | 0.0100 | 0.9980 | 0.6467 | 0.1787 |
| 7131 | 1.402328 | 0.0001 | 0.0115 | 1.0000 | 0.0094 | 0.9980 | 0.6467 | 0.1787 |
| 7132 | 1.402131 | 0.0000 | 0.0002 | 1.0000 | 0.0089 | 0.9980 | 0.6466 | 0.1788 |
| 7133 | 1.401935 | 0.0000 | 0.0000 | 1.0000 | 0.0084 | 0.9980 | 0.6466 | 0.1788 |
| 7134 | 1.401738 | 0.0000 | 0.0000 | 1.0000 | 0.0079 | 0.9980 | 0.6465 | 0.1788 |
| 7135 | 1.401542 | 0.0000 | 0.0000 | 1.0000 | 0.0074 | 0.9980 | 0.6465 | 0.1788 |
| 7136 | 1.401345 | 0.0000 | 0.0000 | 1.0000 | 0.0070 | 0.9980 | 0.6464 | 0.1788 |
| 7137 | 1.401149 | 0.0000 | 0.0000 | 1.0000 | 0.0066 | 0.9980 | 0.6463 | 0.1789 |
| 7138 | 1.400953 | 0.0000 | 0.0000 | 1.0000 | 0.0062 | 0.9980 | 0.6463 | 0.1789 |
| 7139 | 1.400756 | 0.0000 | 0.0000 | 1.0000 | 0.0058 | 0.9980 | 0.6462 | 0.1789 |
| 7140 | 1.400560 | 0.0000 | 0.0000 | 1.0000 | 0.0054 | 0.9980 | 0.6462 | 0.1789 |
| 7141 | 1.400364 | 0.0000 | 0.0000 | 1.0000 | 0.0054 | 0.9980 | 0.6461 | 0.1789 |
| 7142 | 1.400168 | 0.0000 | 0.0000 | 1.0000 | 0.0053 | 0.9980 | 0.6461 | 0.1790 |

## Appendix B Equipment Specifications

### Current Control Mode

|                                 |   |
|---------------------------------|---|
| Average/Peak Current Range      | 0.05 to 9.95 A  |
| Average/Peak Current Resolution | 0.01 A  |
| Average Current Accuracy        | $\pm 0.02$ A + 1% of reading                          |
| Peak Current Accuracy           | $\pm 0.03$ A + 2% of reading, for frequency >10 Hz    |
| Analog Input <sup>1</sup>       |   |
| Scale Factor (Accuracy)         | 1V/A, 10 V Full Scale ( $\pm 0.03$ A + 2% of reading) |
| Input Impedance                 | 20 k $\Omega$ nominal                                 |
| Bandwidth                       | 25 kHz typical  |
| Transition Times                | 12 $\mu$ sec typical                                  |
| Maximum Output Voltage          | 4 V at connector, 3 V end of cable                    |
| Noise                           | 20 mA p-p @ laser connector typical                   |

### Power Control Mode

|                               |  |
|-------------------------------|--|
| Average/Peak Power Range      | 0.01 to 2 W  |
| Average/Peak Power Resolution | 0.002 W (0.002 setpoint)   |
| Average Power Accuracy        | $\pm 0.002$ W + 2% of reading                                    |
| Peak Power Accuracy           | $\pm 0.01$ W + 3% of reading (0.02 W if MPD $\leq 0.5$ )         |
| Analog Input                  |  |
| Scale Factor (Accuracy)       | 2 V/W, 4 V Full Scale ( $\pm 0.01$ W + 3% of reading)            |
| Input Impedance               | 20 k $\Omega$ nominal  |
| Bandwidth                     | 25 kHz typical   |
| Transition Times              | 10 $\mu$ sec typical   |
| Maximum Output Voltage        | 4 V at connector, 3 V end of cable                               |
| Noise                         | 5 mW p-p @ laser connector typical<br>(10 mW if MPD $\leq 0.5$ ) |

### Monitor Photodiode

|                                  |                                       |
|----------------------------------|---------------------------------------|
| Control Range                    | 0.1 to 20 $\mu$ A/mW (mA/W)           |
| Two Internal Ranges <sup>2</sup> | 0.1 to 0.50 and 0.52 to 20 $\mu$ A/mW |
| Resolution                       | 0.02 $\mu$ A/mW                       |
| Maximum Input Current            | 10 mA                                 |

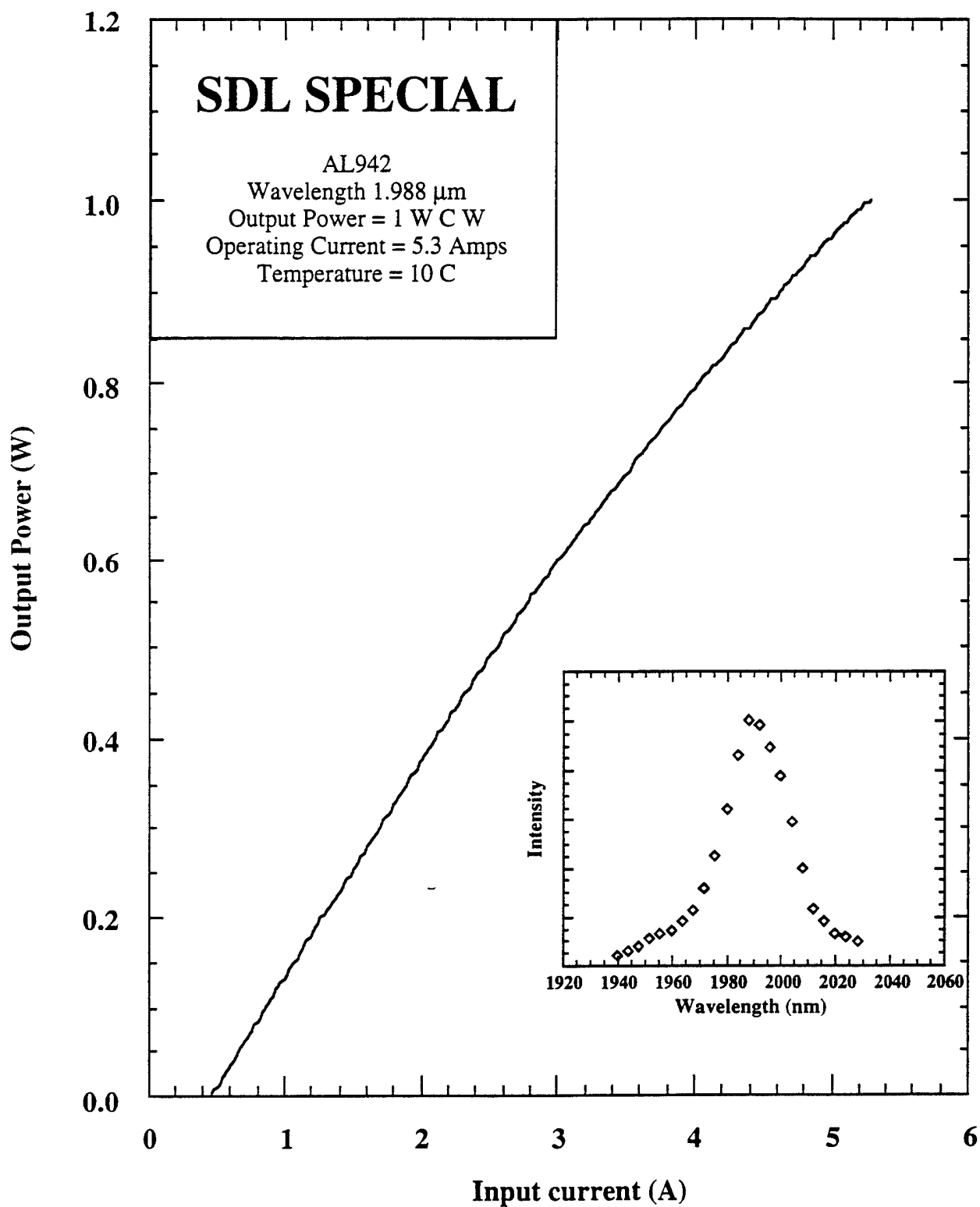
### Current Limit

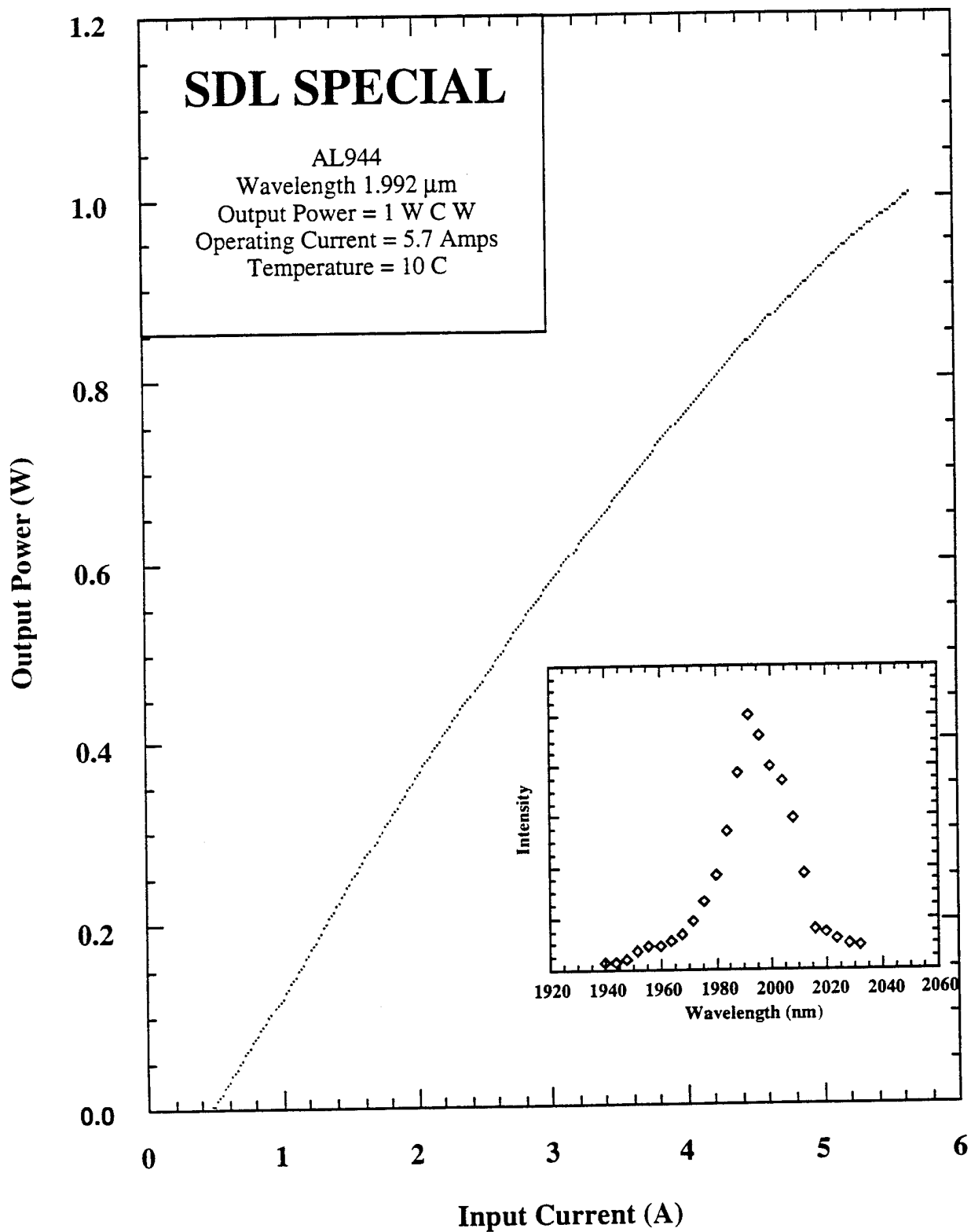
|                                     |  |
|-------------------------------------|--|
| Range                               | 0.25 to 10 A                           |
| Resolution (Accuracy <sup>3</sup> ) | 0.01 A ( $\pm 0.02$ A + 1% of reading) |

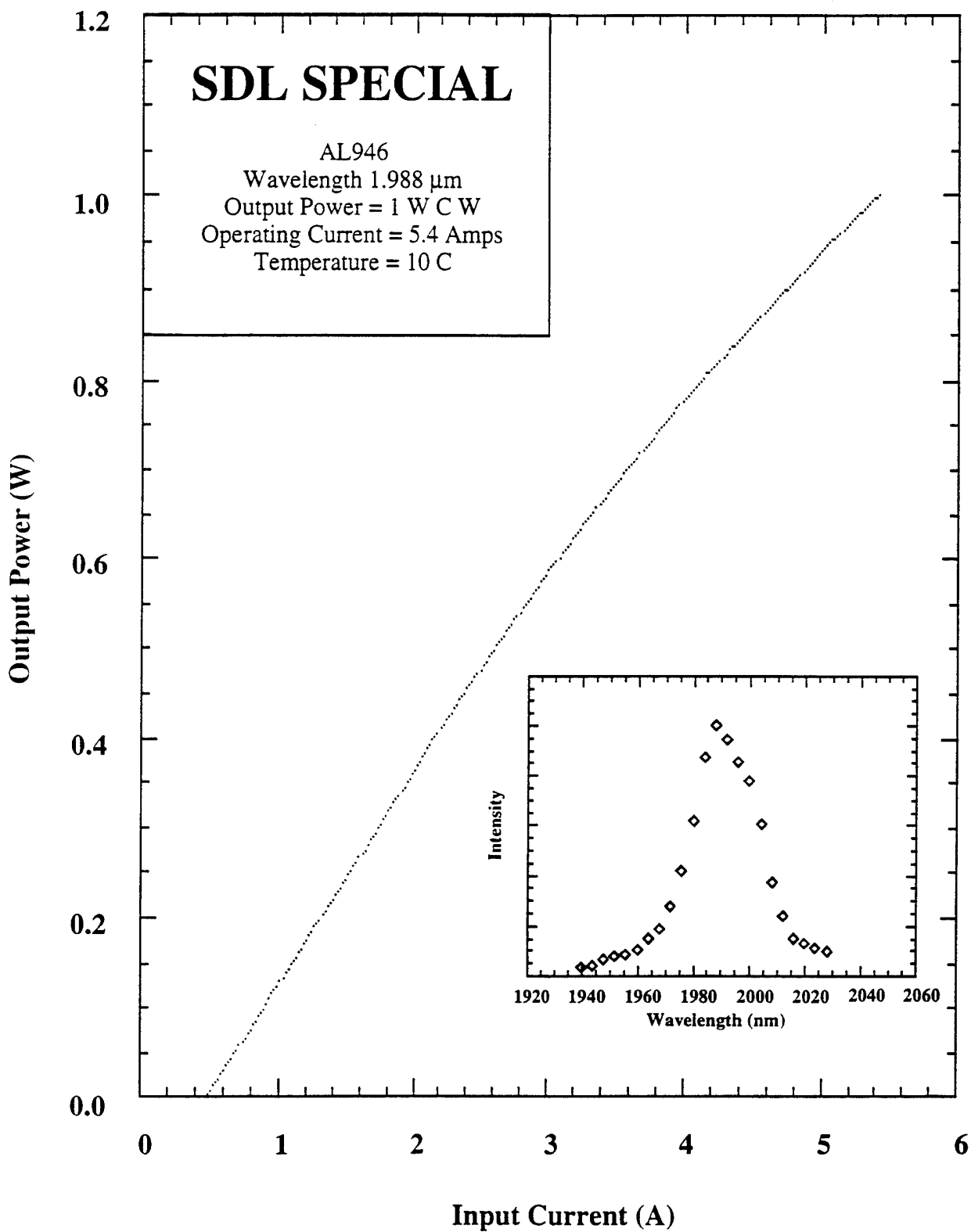
### Temperature Control

|                                     |  |
|-------------------------------------|--|
| Actual/Setpoint Range               | -20 to 40 $^{\circ}$ C                   |
| Reading Range                       | -25 to 50 $^{\circ}$ C                   |
| Resolution (Accuracy <sup>4</sup> ) | 0.1 $^{\circ}$ C ( $\pm 1$ $^{\circ}$ C) |
| Maximum Voltage Drive               | 10.5 V at connector, 10 V end of cable   |
| Maximum Current Drive               | 5 A                                      |
| TEC Drive Limit Range               | 0 to 10 V                                |
| Resolution (Accuracy)               | 0.01 V ( $\pm 0.02$ V + 2% of setting)   |







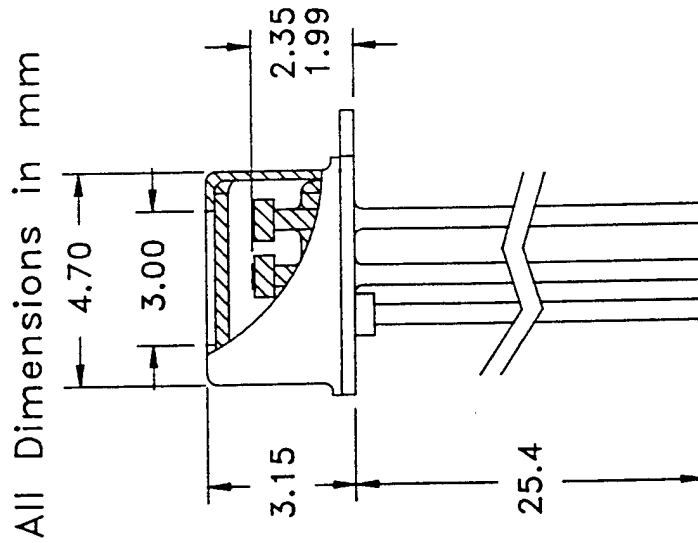


# ETX 500T, ETX 1000T

## EPITAXX

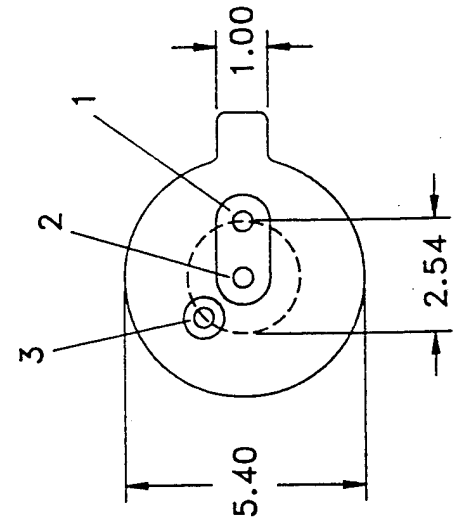
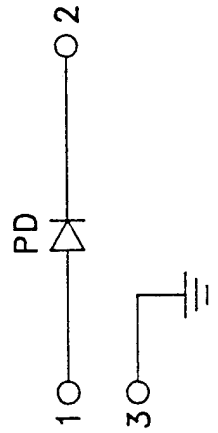
OPTOELECTRONIC DEVICES

7 Graphics Drive ■ West Trenton, NJ 08628  
TEL (609) 538-1800 ■ FAX (609) 538-8122



Leads  
(0.42 mm O.D. Typ.)

Electrical Schematic



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